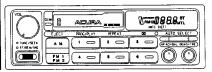




KEH-6261ZH/US



ORDER NO. **CRT1416**

CASSETTE CAR STEREO WITH FM/AM ELECTRONIC TUNER

• These models have been installed in HONDA INTEGRA.

Model	HONDA No.	Destination
KEH-6261ZH/US	39100-SK7-A020-M1	U. S. A.
KEH-7261ZH/CA	39100-SK7-C020-M1	CANADA

Note:

- See the srevice manual CX-156 (CR-468) for the cassette mechanism description.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

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	7. SCHEMATIC CIRCUIT DIAGRAM·····21
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PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan PIONEER ELECTRONICS SERVICE INC. P.O. Box 1760, Long Beach, California 90801 U.S.A. PIONEER ELECTRONICS OF CANADA, INC. 505 Cochrane Drive, Markham, Ontario L3R 8E3 Canada PIONEER ELECTRONIC [EUROPE] N.V. Haven 1087 Keetberglaan 1, 9120 Melsele, Belgium PIONEER ELECTRONICS AUSTRALIA PTY. LTD. 178-184 Boundary Road, Braeside, Victoria 3195, Australia TEL: [03] 580-9911

(EH-6261ZH/KEH-7261ZH

1. SPECIFICATIONS

General
Power source 14.4 V DC (10.8 — 15.6 V allowable)
Grounding system Negative type
Dimensions
$[7-1/8(W) \times 2(H) \times 6-1/4(D)in.]mm$
Weight 1.7 kg (3.7 lbs.)
Amplifier
Continuous power output is 14 W per channel min. into 4 ohms, both
channels driven 50 to 15,000 Hz with no more than 5% THD.
Maximum power output
Load impedance $4 \Omega (4-8 \Omega \text{ allowable})$
Tone controls (bass) ¹⁶ dB(125 Hz)
(treble) 112 dB(10 kHz)
Tape player
Tape Compact cassette tape (C-30 — C-90)
Tape speed 4.76 cm/sec. (+0.14 cm/sec., -0.05 cm/sec.)
Fast forward/rewind time Approx. 100 sec. for C-60
Wow & flutter 0.09% (WRMS)
Frequency response Metal: 50 - 16,000 Hz (±3 dB)
Normal: 50 - 12,000 Hz (±3 dB)
Stereo separation
Signal-to-noise ratio Dolby NR IN: 60 dB (IHF-A network)
Dolby NR OUT: 52 dB (IHF-A network)

FM tuner Frequency range
Distortion 0.5% (at 65 dBf, 1 kHz, stereo) Frequency response 50 - 15,000 Hz (±3 dB) Stereo separation 40 dB (at 65 dBf, 1 kHz)
AM tuner 530 - 1,710 kHz (10 kHz) Frequency range 530 - 1,710 kHz (10 kHz) Usable sensitivity 20 μ V (26 dB) (S/N: 20 dB) Selectivity 50 dB (\pm 10 kHz)

These specifications were determined and are presented in accordance with specification standards established by the Ad Hoc Committee of Car Stereo Manufacturers.

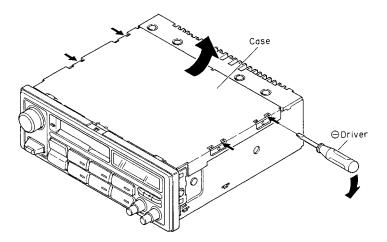
Note:

Specifications and the design are subject to possible modification without notice due to improvements.

2. DISASSEMBLY

Removing the Case

1. Insert and turn a flat screwdriver to remove the case.



• Removing the Grille Assy

- 1. Remove the five knobs.
- 2. Remove the two screws B.
- 3. Press the tabs at six locations indicated by arrows, and pull out the grille assy.

● Removing the Cassette Mechanism Assy

- 1. Remove the four screws A.
- Disconnect the connector (20P), and then raise the cassette mechanism assy to remove.

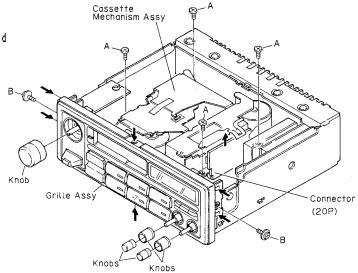


Fig. 2

• Removing the Key Board P. C. Board

1. Remove the four screws C and then remove the key board p.c. board

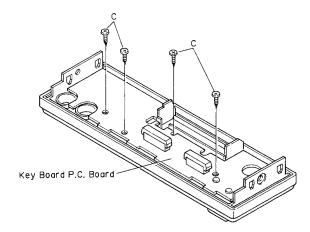
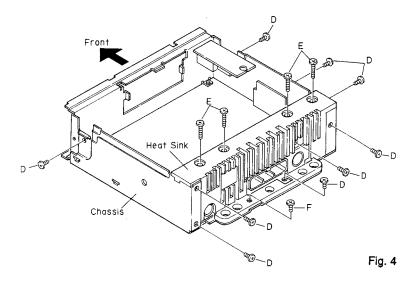


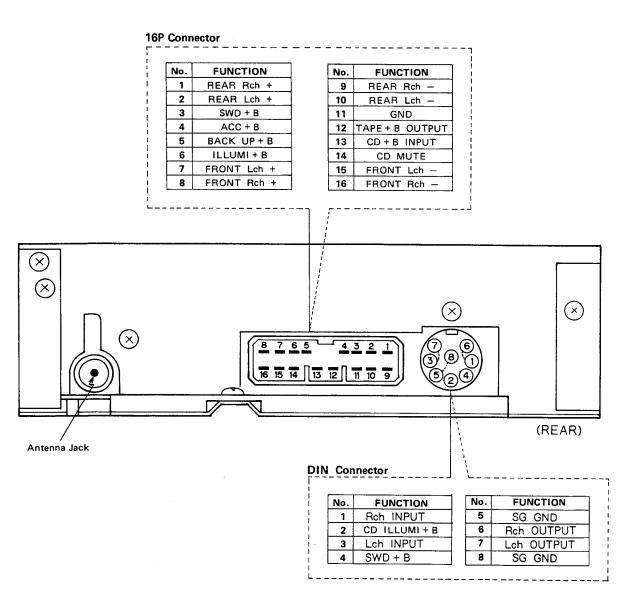
Fig. 3

● Removing the Chassis and Heat Sink

- 1. Remove the nine screws D and four screws E.
- 2. Remove the screw F and then remove the chassis and heat sink.



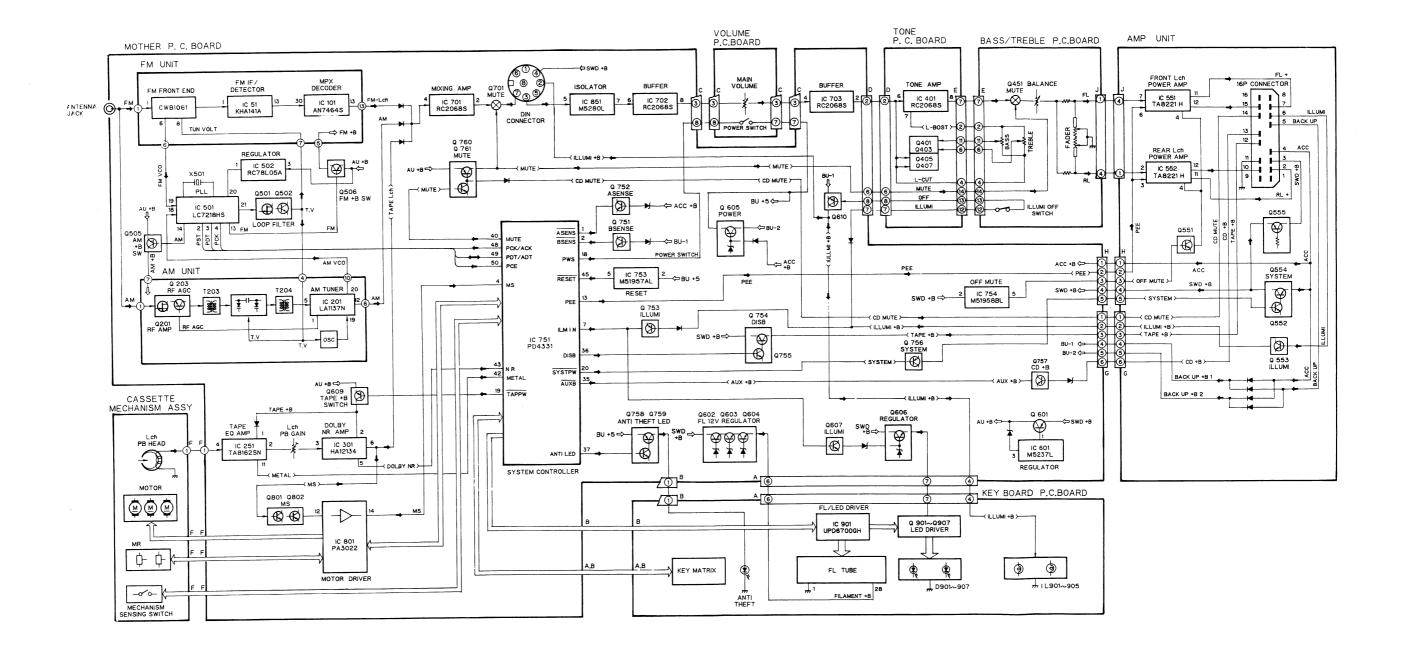
3. CONNECTOR TERMINAL FUNCTIONS



Note:

When using this unit alone, insert the "short plug" into the DIN terminal to short pars 7-3, 6-1, 8-4.

4. BLOCK DIAGRAM



KEH-6261ZH/KEH-7261ZH

5. ADJUSTMENT

Connection Diagram

NOTICE:

Select C1 so that total capacity of 80pF is attained from the direction of the receiver jack.

Z: Output impedance of SSG.

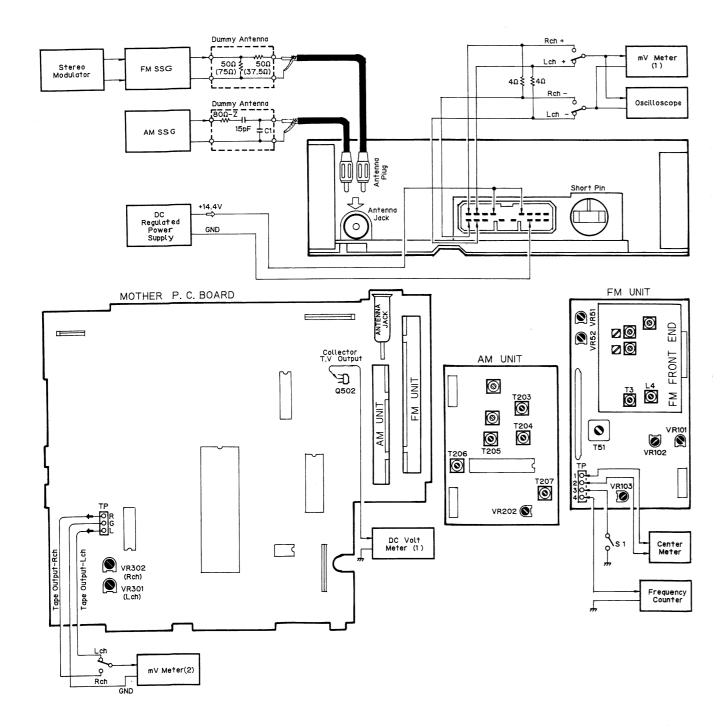


Fig. 7

7

DOLBY NR ADJUTMENT

No.	Cassette Tape	Adusting Point	Adusting Method (Switch Position)
1	NCT-150 (400Hz, 200nwb/m)	VR301 (Lch). VR302 (Rch)	mV Meter(2):330mV (-7.2dBs±1dB) (DOLBY NR Switch:OFF)

AM ADJUSTMENT

		AM SSG (400	Hz, 30%)	Displayed	Adusting	Adusting Method	
	No.	Frequency (kHz)	Level (dBμV)	Frequency Point (kHz)		(Switch Position)	
Tun-	1	530	2 5	530	T207	DC V Meter (1):1.0±0.05V	
ing Volt	2	1, 710	2 5	1.710		DC V Meter(1): Less than 7.3V	
	3	600	2 5	600	T203.204. 205.206	mV Meter(1):Maximum	
SEEK	1	1,000	33 ± 5	1,000	VR202	Make SEEK stop.	

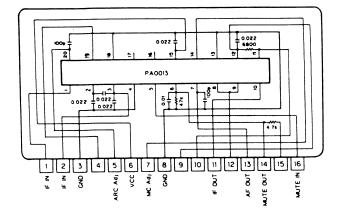
FM ADJUSTMENT \pm 1 Stereo MOD.: 1kHz, L+R=90%, Pilot=10%

	No.	FM SSG (400Hz, 100%)		1 ' '		Adusting Method
	NO.	Frequency (MHz)	Level (dBf)	Frequency (MHz)	Point	(Switch Position)
1 F	1	98.1	6 5	98. 1	T51	Center Meter:0
Fro-	1	_	_	87. 75	L4	DC V Meter (1):7.3±0.1V
End	2	_	_	107.9		DC V Meter (1):1.0+0.5V -0.4V
	3	98.1	20	98.1	Т3	mV Meter(1):Maximum
19 k	1	98. 1	65	98. 1	VR101	S1 : ON Frequency Counter: 19kHz ± 50Hz
SM	1	98. 1	6 5	98. 1	VR 5 2	DC V Meter (2):2.5±0.1V
MPX	1	98.1 ※1	6 5	98.1	VR103	mV Meter(1): Separation Maximum
	2	98.1 ※1	3 5	98.1	VR102	mV Meter(1): Separation 5dB
SEEK	1	98.1	30 ± 5	98. 1	VR51	Make SEEK stop.

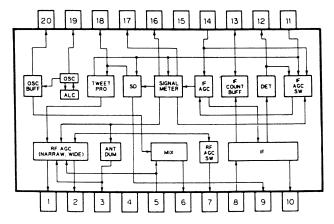
KEH-6261ZH/KEH-7261ZH

ICs

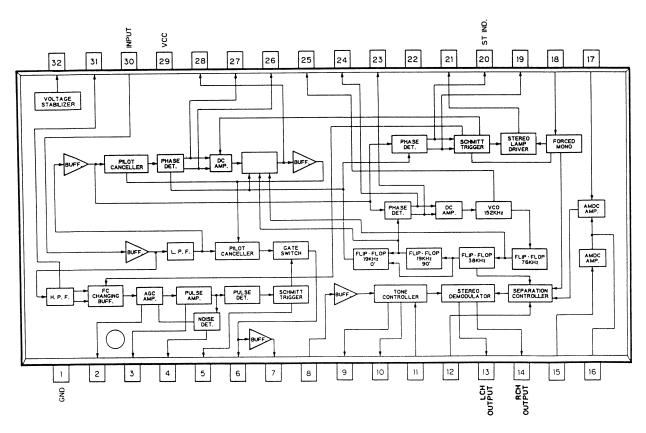
KHA141A



LA1137N

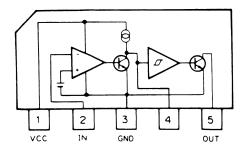


AN7464S

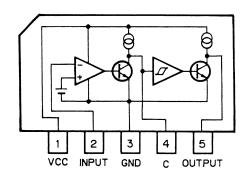


EH-6261ZH/KEH-7261ZH

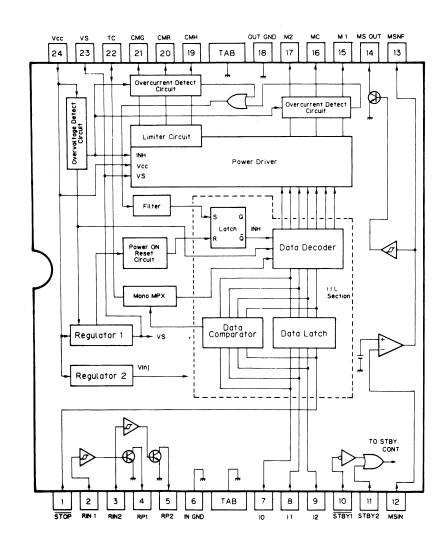
M51958BL



M51957AL

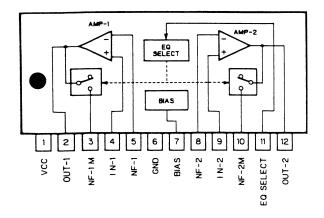


PA3022A

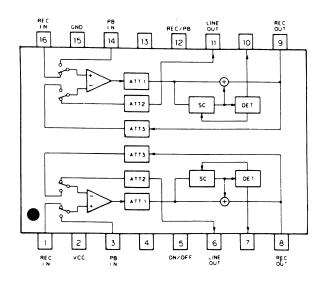


KEH-6261ZH/KEH-7261ZH

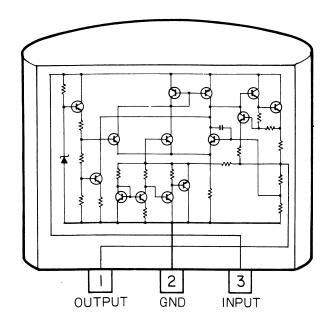
TA8162SN



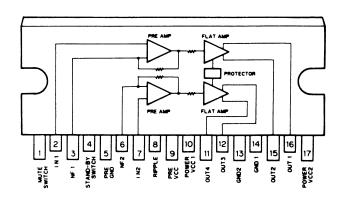
HA12134



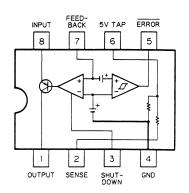
RC78L05A



TA8221H

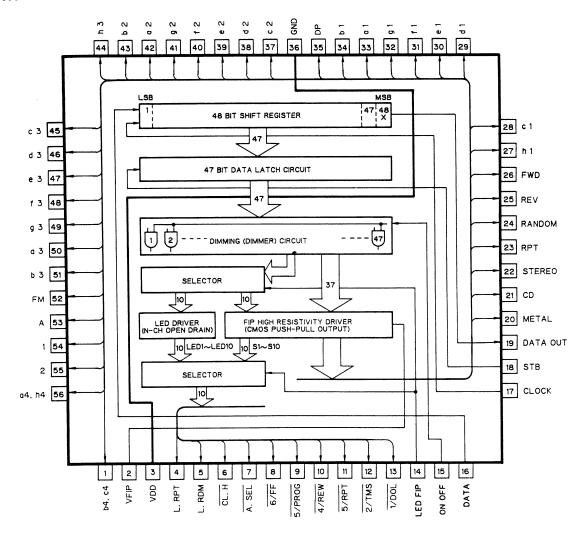


M5237L

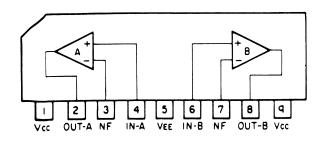


EH-6261ZH/KEH-7261ZH

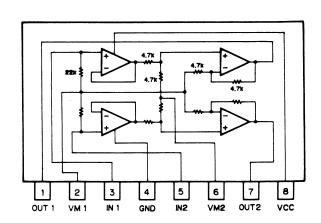
UPD6700GH

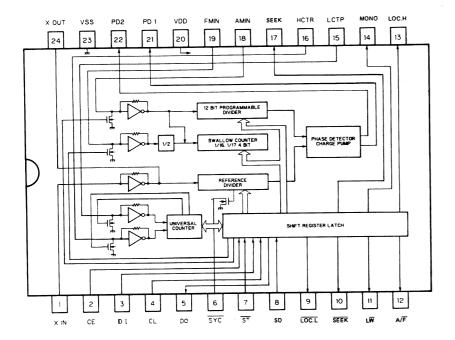


RC2068S



M5280L

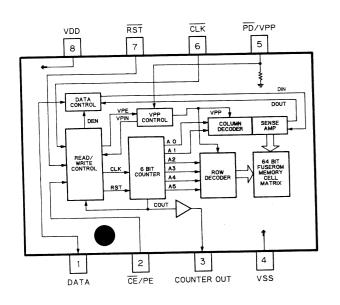




IC's marked by * are MOS type.

Be careful in handing them because they are very liable to be damaged by electrostatic induction.

P-2100R



4	64	vss	ASENS 1
+	63	10	BSENS 2
+	62	[1	(PEERQ) 3
-	61	12	MS 4
+	60	STBY1	(JACHG) 5
-	59	CM	(SICHG) 6
-	58	MST8	ILM IN 7
-	57	MST1	SDLEN 8
-	56	MST2	NES 9
-	55	MD 3	RES 10
-	54	MD2	FCK 11
-	53	MD1	FLINH 12
-	52	MD®	PEE 13
-	51	ST	FDTA 14
-	50	PCE	TSI 15
-	49	PDT/ADT	TS0 16
-	1	PCK/ACK	TSCK 17
-	47		PWS 18
-	46		TAPPW 19
-	1	RESET	SYSPW 20
-	1	PLAY	(BRST) 21
-	43		22
-	1	METAL	KST3 23
-	1	FST	KST2 24
-	1	MUTE	KSTT 25
-		, <u>CE</u>	KST0 26
-	1	RST	KD3 27
•		ANTI LED	KD2 28
•		, DISB	KDT 29
		AUXB	KDE 30
•	1	(BSRQ)	NC 31
	33	(BRXEN)	VDD 32
	1		

● Pin Functions (PD4331A)

	unctions (
Pin	Pin name	1/0	Output	Function
			Format	
1	ASENS	input		ACC +B sensor input. "L":when ACC ON
2	BSENS	input		Back Up +B sensor input. "L":when Back Up ON
3	PEERQ	input		PEE request input. Not used.
4	MS	input		MS puls input.
5	JACHG	input		Not used.
6	SICHG	input		Not used.
7	ILM IN	input		Illumination +B input.
8	SDLEV	input		Tuner SD level detector input.
9	NES	input		Reel pulse detector input-forward.
10	RES	input		Reel pulse detector input-reverse.
11	FCK	output	C	FL drive clock signal output.
12	FLINH	output	С	FL driver dimmer output.
13	PEE	output	С	Buzzer On output.
14	FDTA	output	С	FL drive data signal output.
15	TSI	input		Not used.
16	TSO	output	С	Not used.
17	TSCK	output	С	Not used.
18	PWS	input		Power switch detector input.
19	TAPPW	output	Nm	Tape deck power output.
20	SYSPW	output	NM	System power (power amp) output.
21	BRST	output	Nm	Not used.
22				Not used.
23	KST3			
		output	Nm	Key strobe signal output.
26	KSTO			
27	KD3			
1		input		Key return input.
30	K D O			
31	NC			Non connect.
3 2	VDD			Power supply (+5v).
33	BRXEN	in/out	С	Not used.
3 4	BSRQ	input		Not used.
35	AUXB	input		AUX input sensor input. "L":AUX operation activated.
36	DISB	output		AUX operation disable output.

14	

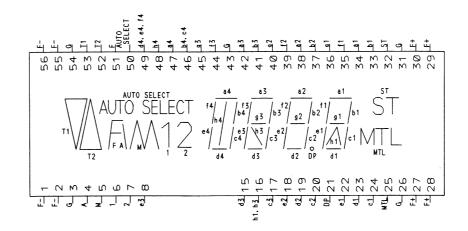
KEH-7261ZH

Pin	Pin name	1/0	Output	Function	
			Format		
37	ANTI LED	output	С	Anti theft LED output.	
3 8	RST	output	С	ROM reset output.	
3 9	CE	output	С	ROM chip enable output.	
40	MUTE	output	С	Mute output.	
41	FST	output	С	FL strobe signal output.	
- 10	METAL		_	Matal autout	

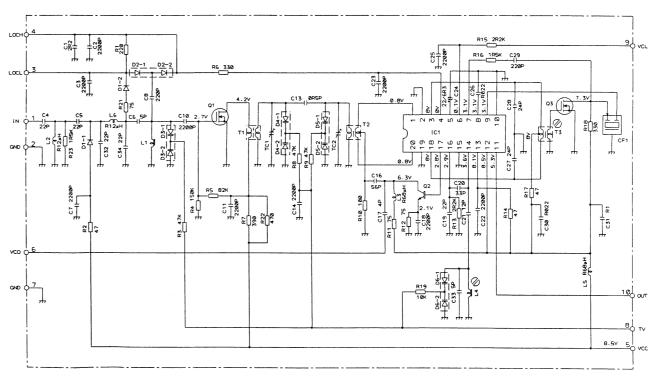
			Format	
37	ANTI LED	output	С	Anti theft LED output.
3 8	RST	output	С	ROM reset output.
3 9	CE	output	С	ROM chip enable output.
40	MUTE	output	С	Mute output.
41	FST	output	С	FL strobe signal output.
42	METAL	output	С	Metal output.
43	NR	output	С	Noise reduction output.
44	PLAY	output	С	MS filter switching output.
45	RESET	input		Reset input.
46	X 2	output		Oscillator output.
47	X 1	input		Oscillator input.
48	PCK/ACK	output	C	PLL clock output/ROM clock output.
49	PDT/ADT	in/out	C	PLL data output/ROM data input.
50	PCE	output	C	PLL chip enable output.
51	ST	input		Stereo input.
5 2	MD0			
1	1	input		Deck switch return input.
5 5	MD3			
56	MST2			
1	1	output	C	Deck switch strobe output.
5.8	MST0			
59	CM	output	C	Deck capstan motor control output.
60	STBY1	output	C	Stand-by control for IC801 (PA3022).
6 1	12			
		output	C	Control data for IC801(PA3022).
6 3	10			
6 4	VSS			Ground.

Output Format	Meaning
С	C-MOS
Nm	Middle resistivity N channel open drain

● FL Tube (CAW1129)



● FM Front End (CWB1059)

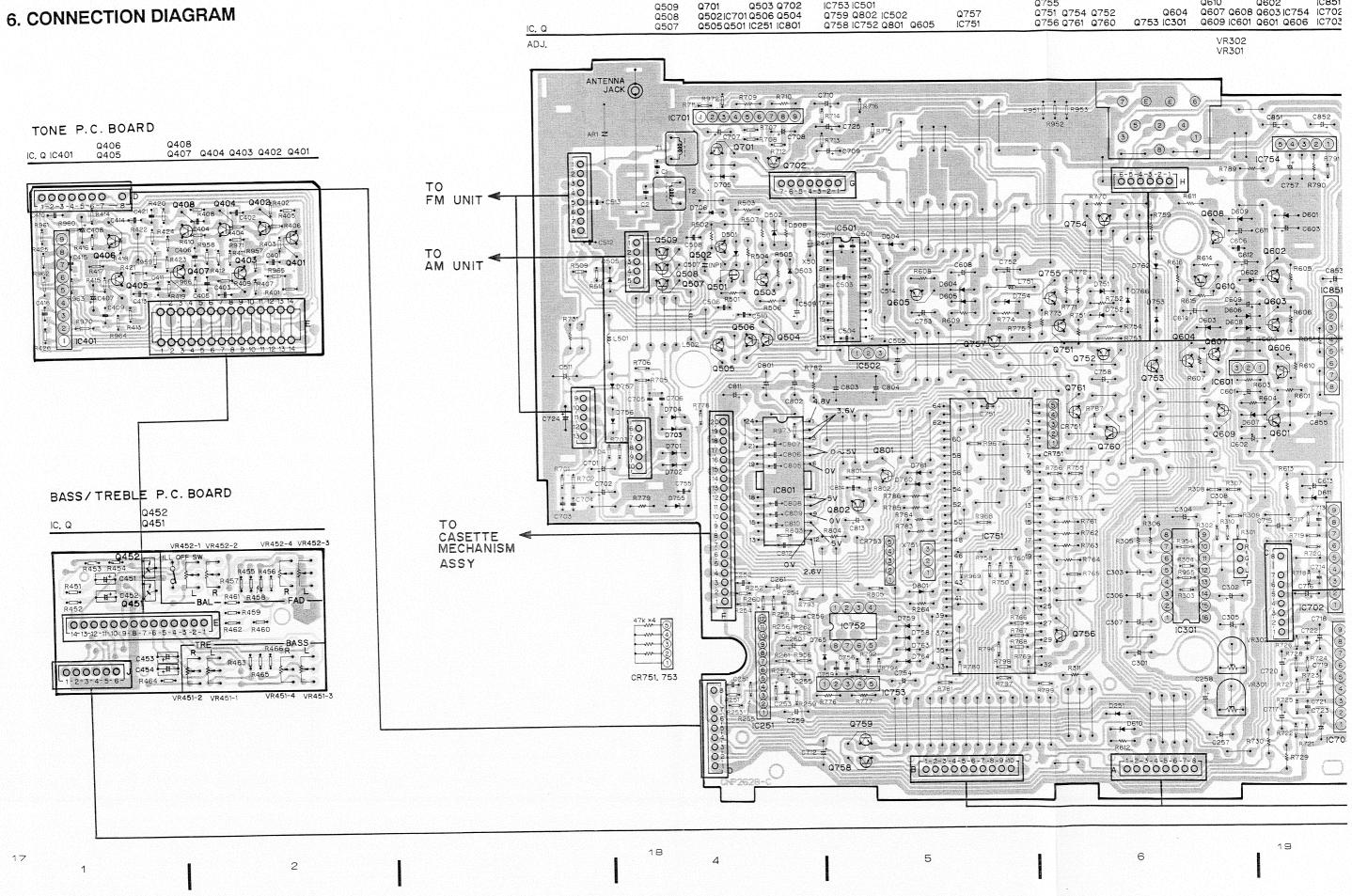


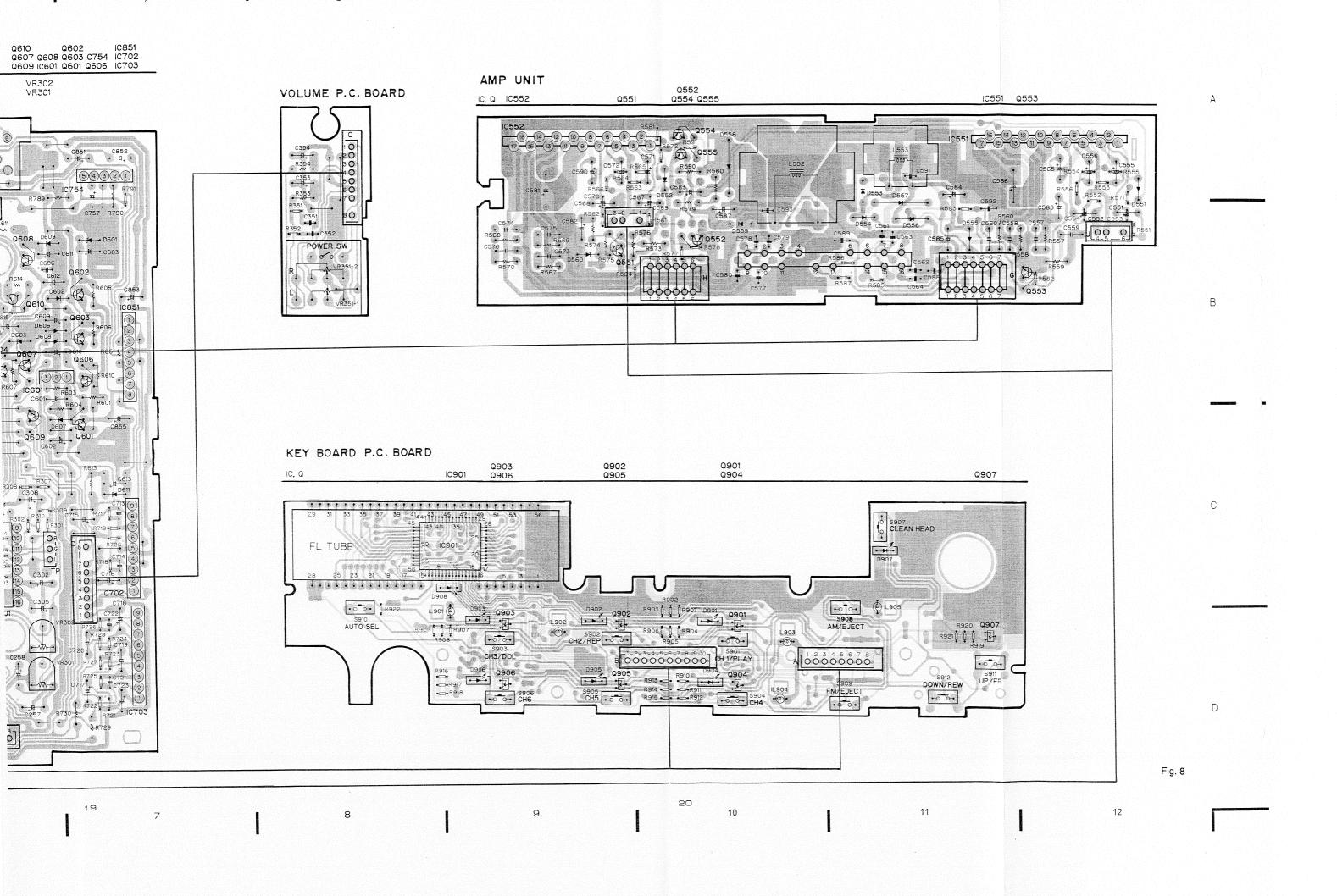
15

NOTE:
—— Symbol indicates a resistor.
No differentiation is made between chip resistors and discrete resistors.

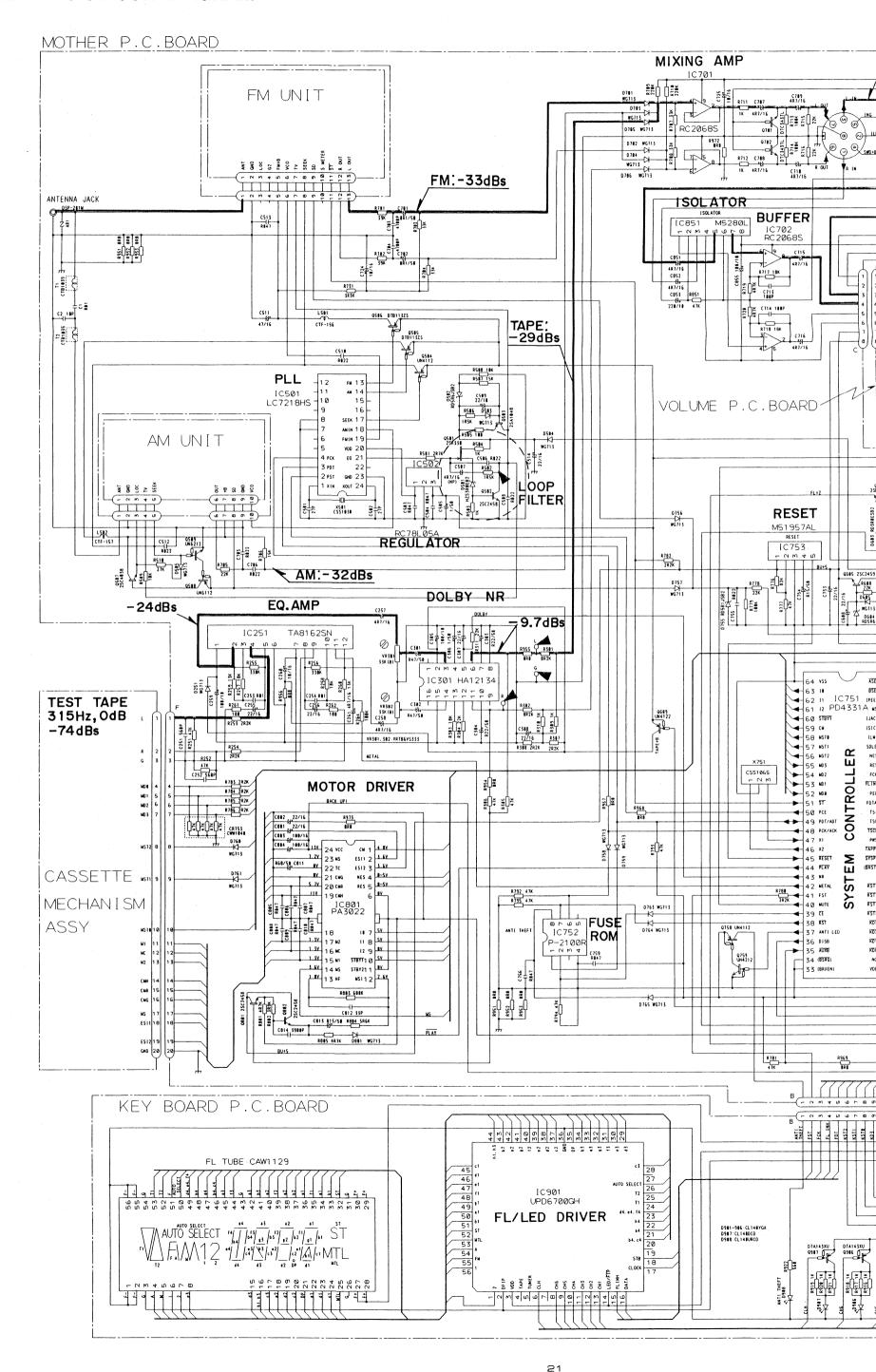
Decimal points for resistor and capacitor fixed values are expressed as: 2.2→2R2 0.022→R022

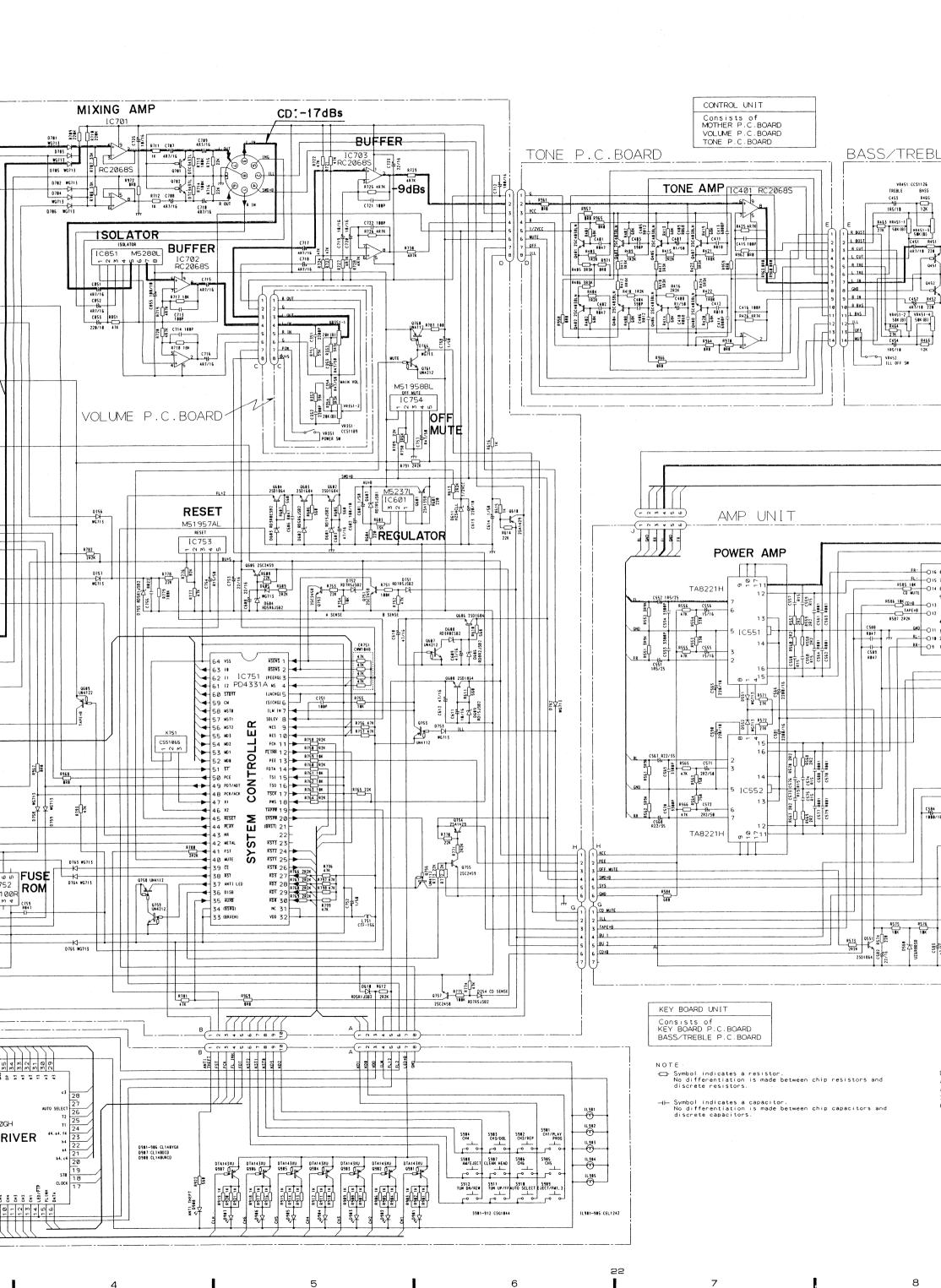
MOTHER P.C. BOARD





7. SCHEMATIC CIRCUIT DIAGRAM





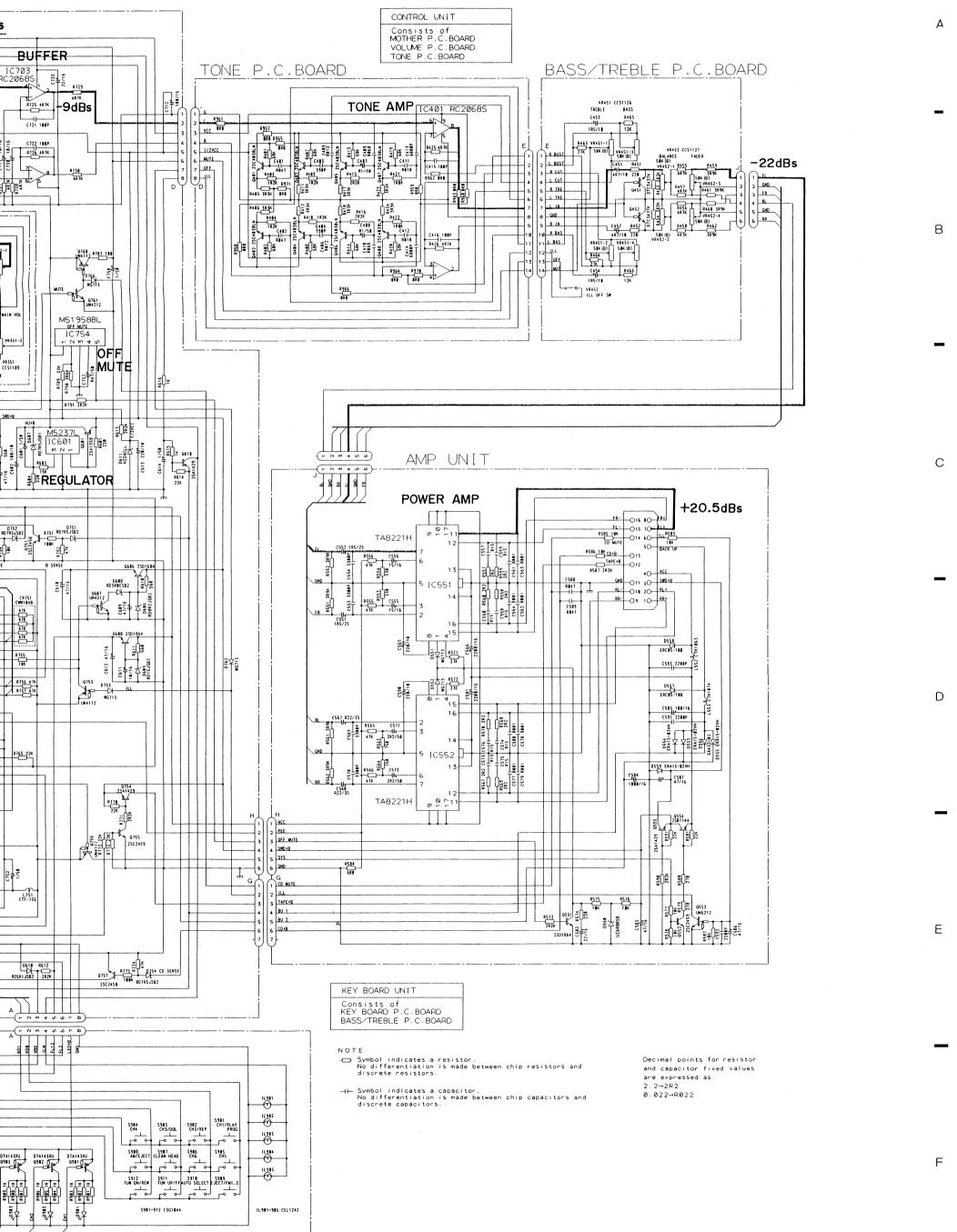


Fig. 9

23

22

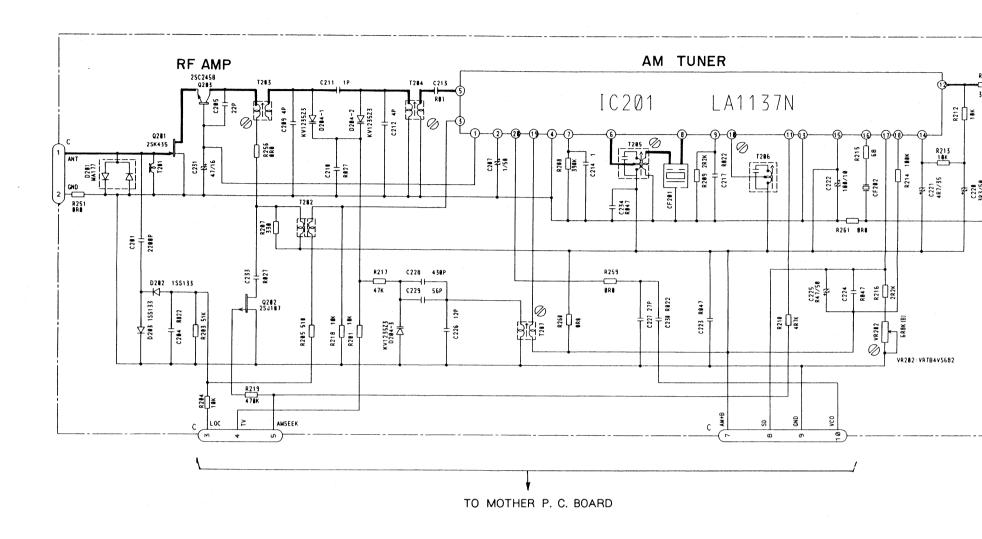
Α

С

D

Ε

AM Unit



• FM Unit

FM FRONT END C104 6880P CWB1059 5 VCC 6 VC0 7 GND 8 TV ANT € L51 88. 38. 38. 38. 38. 1817 IF/PNS/DET. 1 ANT CS RØ1 KHA141A 19 19 1 C3 T488 2 GND UN5112 R76 3 LOCK R57 4R7K ORB -MPX VR51 2SA1586 22K (B) 1 Q52 AN7464S 4 LOCH - C M 4 G O C B O C C M 4 G O Q52 C54 1R5K 5 VCC 2SC4116 VCO 2SA1586 p 25C4116 Q4 8 SEEK ã [] **≅** £55 → ₹ Q55 三山葉 R120 0R0 R78 338K UN5212

TO MOTHER P. C. BOARD

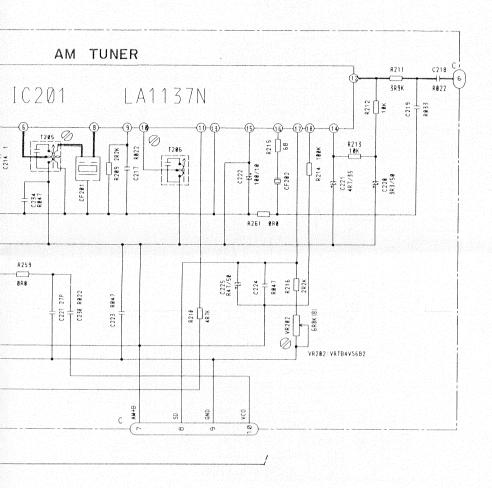
24

2

3

25

4



ARD

25



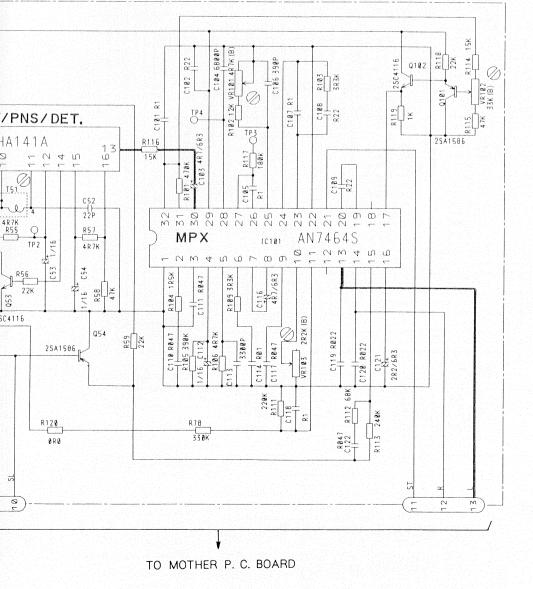


Fig. 12

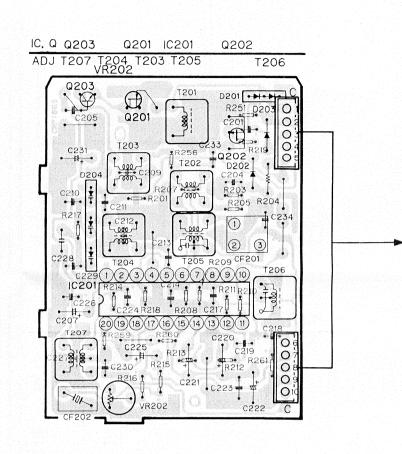
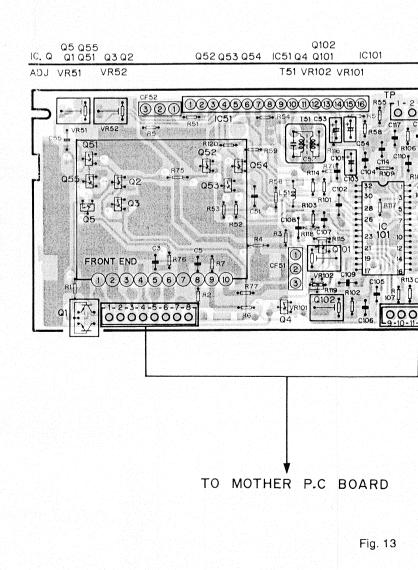


Fig. 11



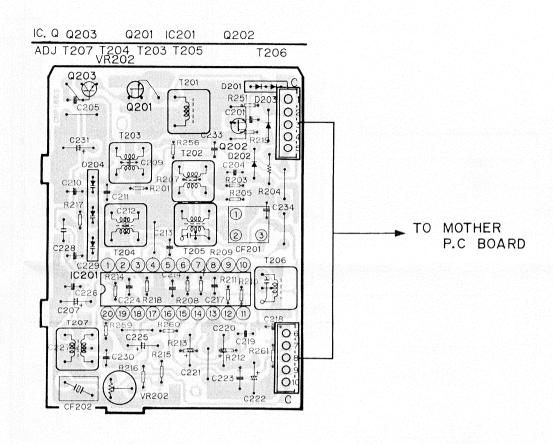


Fig. 11

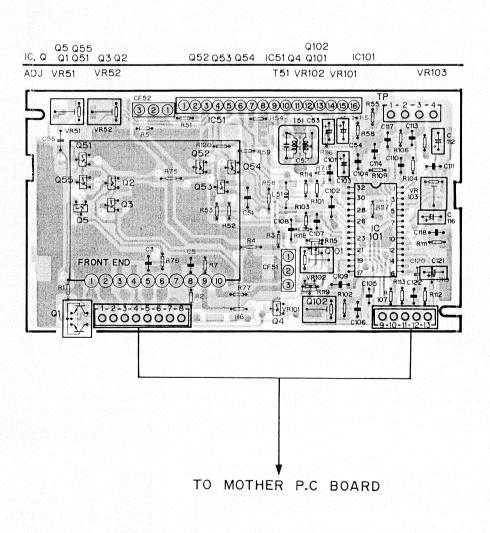
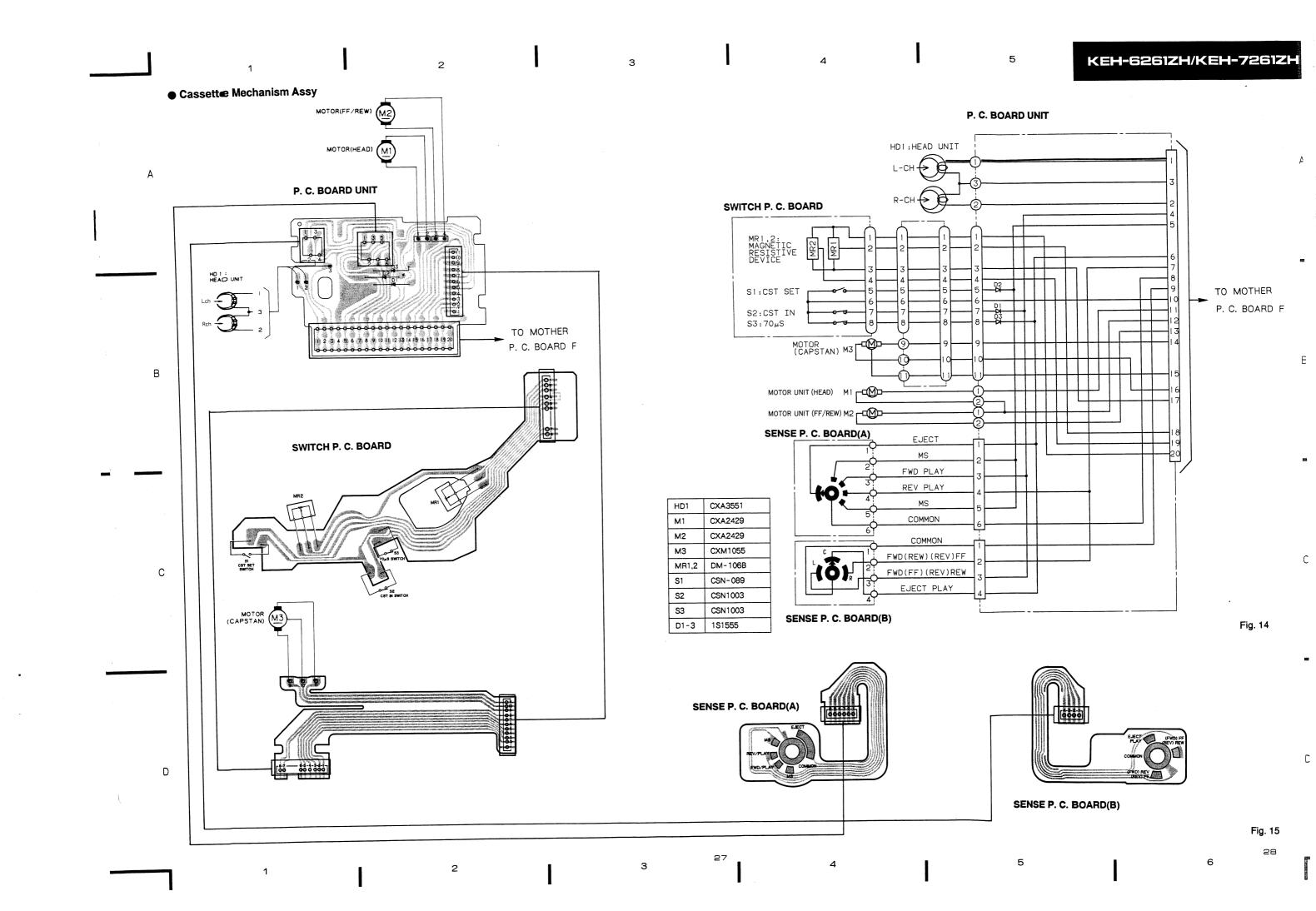


Fig. 13

Fig. 12

Fig. 10



NOTE:

- The parts marked with "®" may need long time to supply and their supply is subject to **r**efuse as the case may be.
- Because the parts with encircled number shown on the dismantling drawing are not spare parts, we are unable to supply them in principle.

Parts List

Mark	No.	Description	Part No.	Mark	N o.	Description	Part No.
• • • • • • • • • • • • • • • • • • •	-	Amp Unit	CWH1120		36	Lens	CNV2690
•		Connector	CDE3244		37	Lens	CNV2693
		Screw	BMZ30P080FMC		38	Lens	CNV2732
	-	Transistor	2SB1144		39	Spring	CBL1117
		I C	T A 8 2 2 1 H		40	Button (1)	CAC2830
	6	Holder	CNC2427			Button (2)	CAC2831
	7	Holder	CNC2426			Button (3)	CAC2832
	8	Spacer	CNM2683			Button (4)	CAC2833
	9	Shiled Case	CNC2429			Button (5)	CAC2834
	10	Case	CNB1156		4 5	Button (6)	CAC2835
	11	Insulator	C N M 2 2 6 1	•		Key Board Unit	
	12	Connector	CKS-664			Cover	C NM3 0 42
	13	Connector	CKS-665			FL Tube	CAW1129
	14	Plug	CKS-711			Cover	C NM3 0 42
	1 5	i Holder	CNC2551		50) Spacer	C NM1316
	16	Button (AM/FM)	CAC2836			Plug	CK\$1659
		Grille Assy	CXA4292		5 2	Connector	CK\$1660
	18	3 Spring	CBH1005			3 Screw	CBA1161
	1.9	Door Assy	CXA4303			4 Frame	CNC3595
	2 () Screw	PMS30P050FMC		5 !	5 Nut	NK90FMC
	2	1 Knob	CAA1253	•		6 Control Unit	CWM2647
	2	2 Knob	CAA1164			7 Holder	CNC3855
	2	3 Knob	CAA1163			8 Volume	CC\$1189
	2	4 Casec	CNB1545			9 Transistor	2 S D 1 6 8 4
	2	5 Cushion	C N M 2 0 6 8		6	0 Transistor	2 S A 1 3 5 8
	2	6 Screw	BMZ30P100FMC		6	1 Holder	CNC3678
	2	7 Screw	BMZ30P050FMC			2 Connector	CKS1156
	2	8 Screw	BMZ30P060FZK		6	3 Short Plug	CKM1022
		9 Heat Sink	CNR1200		6	4 Plug	CKS-645
		0 Screw	CBA1183		6	5 Connector	CDE3245
	3	1 Holder	CNV2694		6	6 Plug	CKS1629
	-	2 Screw	CBA1185		6	7 Plug	CK\$1653
		3 Spring	CBL1185		6	8 Connector	CK\$1654
		4 Button	CAC2839		6	9 Screw	CBA1150
		5 Holder	CNV2733		7	0 Plug	CKS-646

Mark	No.	Description	Part No.	Mark No.	Description	Part No.
	71	Antenna Jack	CKX1006	89-1	ID Card (KEH-6261ZH)	CEE1001
	72	Holder	CNC3689		ID Card (KEH-7261ZH)	CEE1002
	73	Heat Sink	CNG-368	89-2	Owner's Manual	CRB1220
	74	Plug	CKS-659		(KEH-6261ZH)	
		Connector	CKS-672		Owner's Manual (KEH-7261ZH)	CRD1523
	76	Insulator	CNM3062			
	77	Chassis	CNA1357	89-3	Label (KEH-6261ZH)	CAL2306
	78	Screw	BMZ26P050FMC		Label (KEH-7261ZH)	CAL2371
•	79	Cassette Mechanism	CXK1678	89-4	Polyethylene Bag	CEG1103
		Assy		9 0	Plug	CKS-653
•	80	AM Unit	CWA 1 0 5 3	9 1	Pług	CKS1039
	8 1	Holder	CNC2089	9 2	Volume	CCS1127
	8 2	Plug	CKS1606	93	Volume	CCS1126
	83	Insulator	CNM3226	9 4	Holder	CNC3596
•	8 4	FM Unit	CWE 1230	9 5	Nut	CBA-067
	8 5	FM Front End	CWB 1 0 5 9			
	86	Connector	CKS2084			
	87	' Holder	CNC3691			
	88	3 Plug	CKS1617			

10. CASSETTE MECHANISM ASSY EXPLODED VIEW

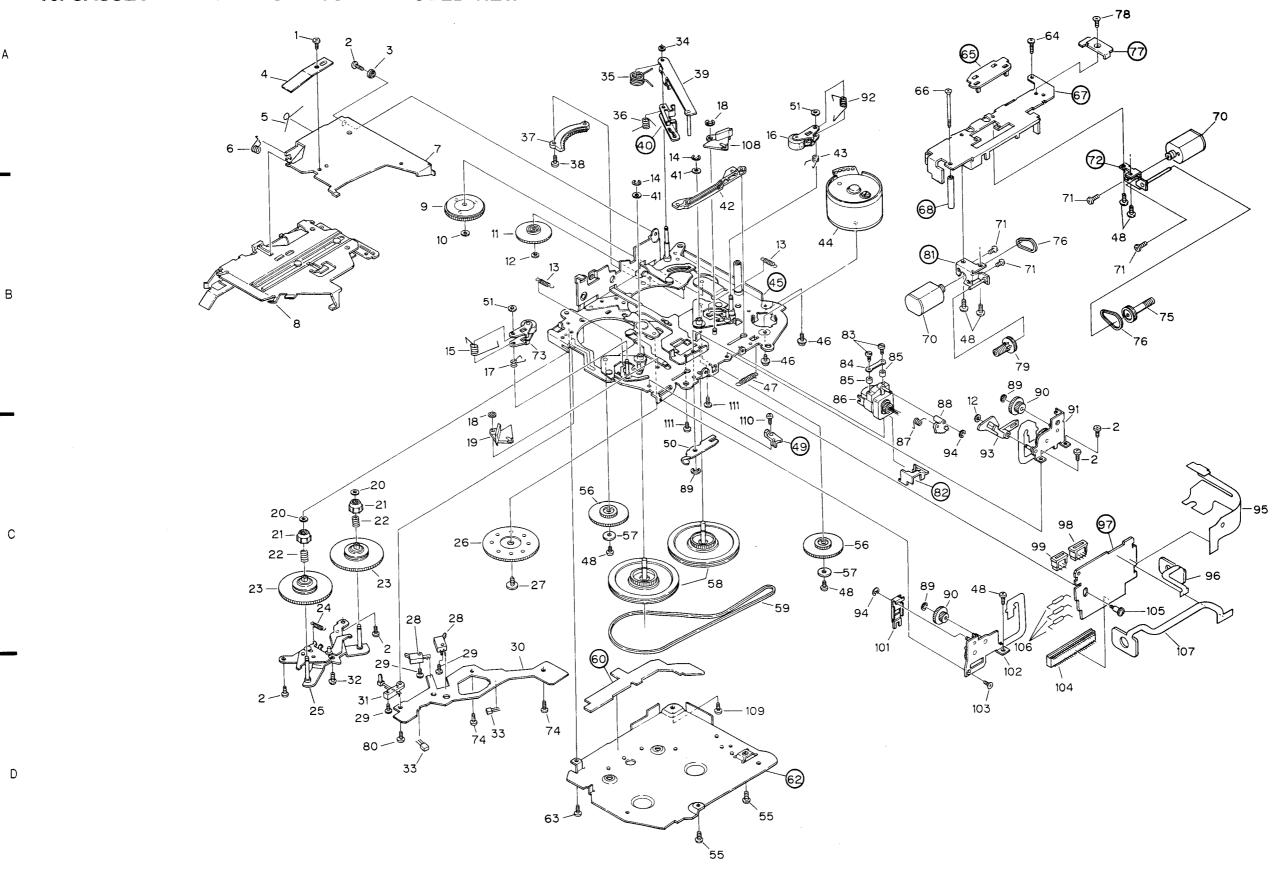


Fig. 17

● Parts List

Parts List Mark No. [Part No.	Mark No. Description	Part No.	Mark No. Description	Part No.
	(H1 A×1 A)	 HBA-147	38 Screw (M2 × 5)	CBA1054	76 Belt	CNT1030
	0 01 0 11 (BMZ20P040FMC	39 Arm Unit	CXA2859	77 Plate	CNC3632
	• • • • • • • • • • • • • • • • • • • •	CLB-663	40 Arm	CNG-618	78 Screw	HBA-212
	<i>y</i> 4011				79 Pulley	CNV1256
	O p. 1.13	CBE1023	41 Washer	HBF-179	80 Screw (M2 $ imes$ 5)	CBA1054
5	Spring	CBH-867	42 Lever	CNV1257		
		0011 007	43 Spring	CBH1196	81 Bracket Unit	CXA2606
	O P 1 1 1 3	CBH-837	44 Motor (Capstan)	CXM1055	82 Cover	CNV1489
	74,	CNC2373	45 Chassis Unit	CXA3544	83 Screw(M1.4 \times 8)	CBA1055
		CXA2858			84 Spring	CBE-114
	Gear Unit	CXA4022	46 Screw	PMS26P025FMC	85 Azimuth Rubber	CNY-134
10	Washer	CBF1026	47 Spring	CBH-830		
			48 Screw (M2 × 2.5)	HBA-175	86 Head Unit	CXA3551
	Gear	CNY-271	49 Spacer	CNW-945	87 Spring	CBH-829
12	Washer	CBF-126	50 Spring	CBL1050	88 Gear	CNW-939
13	Spring	CBH-835	00 0p g		89 E Type Washer	YE12FUC
14	E Type Washer	CBG1003	51 Washer	CBF1025	90 Gear	CNV1262
15	Spring	CBH1277	52	*******		
			53		91 Holder Assy	CXA1546
16	Pinch Roller Unit	CXA2608	54		92 Spring	CBH1276
17	Spring	CBH1197	55 Screw	BMZ20P030FMC	93 Arm	CNV1495
18	E Type Washer	YE25FUC			94 E Type Washer	YE15FUC
19) Arm	CNV1254	56 Gear	CNV1616	95 P.C.Board	CNP1227
20) W asher	CBF1022	57 Collar	CLA1238	••••	
				CNV1572	96 P.C.Board	CNP1738
2 1	1 Collar	CNW-932	58 Flywheel	CNT-111	97 P.C.Board	CNP1851
	2 Spring	CBH-827	59 Belt	CNM2592	98 Connector (6P)	CKS1075
23	3 Reel Unit	CXA2089	60 Insulator	O MM 2 U J Z	99 Connector (4P)	CKS1073
	4 Spring	CBH-868			100	
	5 Bracket Unit	CXA1481	61	CNC2829	100	
-	•		62 Cover	BMZ20P030FMC	101 Arm	CNH-004
2	6 F/R Gear	CNW-944	63 Screw	_	102 Holder Assy	CXA1548
	7 Screw	CBA1106	64 Screw (M1. 7 × 3)	CBA1125 CNV1252	103 Screw (M2 × 2)	HBA-209
	8 Switch (70 μS, CST IN)) CSN1003	65 Holder	CNVIZUZ	104 Connector (20P)	CKS-678
	9 Screw (M1.7 × 5.5)	CBA1025	(4005)	004 105	105 Screw (M2 \times 2 \times 3)	CBA1022
	O P.C.Board	CNP1223	66 Screw (M2 × 25)	CBA-165	103 301 em (MZ × Z × 3)	ODNIVEZ
v	• ,		67 Guide	CNC2219	100 0:-4-	181555
3	11 Switch (CST SET)	CSN-089	68 Spacer	CNC1651	106 Diode	CNP2110
	32 Screw (M1.7×3)	CBA-186	69		107 P. C. Board	CNV12110
	33 Magnetic Resistive	DM-106B	70 Motor Unit	CXA2429	108 Arm	
J	Device		(FF/REW, Head Posi	tion)	109 Screw (M2 × 7)	CBA1072
ç	34 Washer	CBF-046			110 Screw (M2 $ imes$ 4)	CBA1015
	35 Spring	CBH1270	71 Screw	HBA-174	/// - // // // // // // // // // // // /	0041041
3	o opiniy		72 Bracket Unit	CXA2605	111 Screw (M2 × 2.5)	CBA1041
,	26 Sarina	CBH-886	73 Pinch Roller Unit			
	36 Spring 37 Gear	CNV1075	74 Screw (M2 \times 2.5)	CBA1037		
Ç	or ocal		75 Pulley	CNV1255		

11. ELECTRICAL PARTS LIST

Parts whose parts numbers are omitted are subject to being not supplied.
The part numbers shown below indicate chip components.

Chip Resistor
RS1/8S 🗆 🗆 J, RS1/10S 🗆 🗆 J

Chip Capacitor (except for CQS.....)
CKS....., CCS....., CSZS.....

	t Number: t Name : AM Unit								==== Part Name 	
115	CELLANEOUS			210 211	233					CKSQYB27
				213						CCSQCHO1
==	===== Circuit Symbol & No. ==== Part Name	Part No.		-						CKSQYB10
				214						CKSYF105
C	201	LA1137N	·	219						CKSQYB33
	201	2 S K 4 3 5	•							
-	202	2SJ107		220						CEA3R3M5
-	203	2 S C 2 4 5 8		221						CEA4R7M3
	201	MA177		222						CEA101M1
	•••			223	234					CKSYB473
D	202 203 .	155133	C	224						CKSQYF47
-	204 Variable Capacitance Diode	KV1235Z3								
-	201 Coil	CTB-171		225						CEAR47M5
Ţ	202 Coil	CTB1081	•	228						CCSQCH12
	203 204 Coil	CTB1041		227						CCSQSL27
'	200 200			228						CQPA431G
т	205 Coil	CTE1036	С	229						CCSORH56
	•••	CTE1029								
		CTB1042	C	231						CEA470M1
		CTF-100								
		CTF-247								
C F	202 Ceramic Resonator	617-241	Uni	t Nur	nber	:				
V R	202 Volume δ. 8 kΩ (B)	VRTB4VS682	Uni	t Nar	n e	: FM	Unit			
RES	SISTORS		MIS	CELLA	€EOUS	3				
. = :	====== Circuit Symbol & No. ==== Part Name	Part No.							==== Part Name	Part No.
				51						KHA141A
	201	RS1/8S103J		101						AN7464S
	203	R\$1/10\$513J		1				Chi	p Transistor	FMW2
R	204	RD1/4PS103JL		2					p Transistor	UN5112
R	205	R\$1/10\$511J		3	5.1	5.5			p Transistor	UN5212
R	207	RS1/10S331J	•	٠	٠.	• • •		VIII	y itansistor	0113212
			0	4	5	5.3	102	Chi	p Transistor	2SC4116
R	208	RS1/10S394J		5 2					p Transistor	2\$A1586
R	209	RS1/10S222J		51					uctor	CTF1104
R	2 1 0	RS1/10S472J		51					1	CTC1029
R	211	RS1/10S392J		51					amic Filter	
R	212 213 218	R\$1/10\$103J						081	amic riiter	CTF1144
R	214	RS1/10S104J		52				Cer	amic Filter	CTF1145
R		RS1/8S680J		51	52			Sem	i-fixed 22kΩ(B)	CCP1021
R		RS1/8S222J		101				Sem	i-fixed 4.7kΩ(B)	CCP1017
R		RS1/10S473J	V R	102				Sem	i-fixed 33kΩ(B)	CCP1022
r R		R\$1/10\$474J	VR	103				Sem	i-fixed 2.2kΩ(B)	CCP1015
ĸ	213	031/1034143								
R	251 256 259 260	RS1/10S0R0J						FM	Front End	CWB 1 0 5 9
R	261	RS1/8SOROJ	RES	ISTORS						
			===		Ci	rcuit	Symbol	& No.	==== Part Name	Part No.
			 R	 1				·		R\$1/8568
CA	PACITORS			2	7	53				R\$1/10\$1
				3	5					R\$1/10\$2
==	====== Circuit Symbol & No. ==== Part Name	Part No.	R	4	•					R\$1/8\$10
	0110010 078001 0 101		R	6						R\$1/10\$1
С	201	CKSQYB222K50		•						
-	204 217 218 230	CKSQYB223K25	R	51						RS1/10S3:
		CCSQCH220J50	R	52	5.7					
C	***			54	• '					R\$1/10\$4
	207	CEAH EDMANTS 7								
C	207 209 212	CEA010M50LS2 CCSQUJ040C50	R R	55						R\$1/10\$2; R\$1/10\$4

	····	Part No.			<u>.</u> r:		Symbol	l Na		D 4 1	V	Dana N.
	58 59 118	R\$1/8\$473J										Part No.
	75	RS1/10S223J				561	562					R\$1/10\$392.
	16 11	RS1/8SOROJ		553								RS1/10S331J
	78	RS1/10S0R0J	R	555	556	585	566					R\$1/10\$473J
	10	R\$1/10\$334J				559	580					RD1/4PS2R2J
	101	001/1004341	R	563	564							R\$1/10\$751J
	102	R\$1/10\$474J										
		RS1/10S123J				569	570					RD1/4PS2R2J
	103 109 104	RS1/10S332J	R	571	572							RS1/10S273J
	105	R\$1/10\$682J		573	590							RD1/4PS222J
	103	R\$1/10\$394J		574								RD1/4PS221J
	106	RS1/10S472J	R	575	576							RD1/4PS103J
	111	RS1/10S224J										
	112	RS1/10S683J		577								RS1/10S103J
	113	RS1/10S244J		579								RD1/4PS271J
	114			581								R\$1/10\$223J
	114	R\$1/10\$153J	R	582	583	585	586					RS1/10S103J
	115	DC1/1004701	R	584								R\$1/10\$681J
	116	R\$1/10\$473J										
		RS1/10S153J	R	587								R\$1/8\$222J
	117	RS1/10S184J										
	119	R\$1/10\$102J		٠.								
	120	RS1/10SOROJ										
Á	CITORS		CAPA	CITO	RS							
:=	==== Circuit Symbol & No. ==== Part Name	Part No.					Symbol 8					Part No.
-				551								CSZA1R5M25
	3	CKSQYB473K25				569	570					CKSQY8332K5
	5	CKSQYB103K50		555		•••	• . •					CEA150M16LS
	51 55	CKSYB104K25				559	560					CQEA154J63
	52	CCSQCH220J50	Č									CKSQYB102K5
	53 54 112	CSZS010M16	•									OROGIDIUZKO!
			С	565	590							CEA221M10L2
	101 105 107 118	CKSQYB104K25	Č					221	0 µ F/1	l & V		CCH-123
	102 108 109	CKSYB224K25		567					/ ۱ مو م			CSZAR22M35
	103 116	CSZS4R7M6R3		571								
	104	CKSQYB682K50				575	576					CEA2R2M50LS
	106	CCSQSH391J50	•	4:3	014	013	J 1 0					CQEA154J63
			C.	577	57 A	579	580					CKSQYB102K5
	150 111 122	AV AAU		582		3,3						CEA220M16L2
	110 111 122	CKSQYB473K25		583	586	5.27						
	113	CKSQYB332K50		584		901		100	10 1. 5 /	I K V		CEA470M16L2
	114	CKSQYB103K50		585				101	0 μ F/1	1 D ¥		CCH1003
	117	CKS0Y8473K25	•	303								CEA101M16L2
	119 120	CKSQY8223K25	c	588	520							A A G A B T T T T V L L
	121	CS7S2R2M6R3		591		593						CKSYB473K25 CKSQYB222K5
								1				
			Co	ntro	Uni	t						
			- 1	nsis								
t	Number :		- 1			C. Boa						
	Name: Amp Unit		•	Tone	P. C.	8oard						
	•		•	Volu	ne P.	C. Boa	rd					
	ELLANEOUS		pa:+	Nus								
=	===== Circuit Symbol & No. ==== Part Name	Part No.					trol Unit					
	551 552	TA8221H	MISC	ELLA	EOUS							
-	***	2SD1864										
-	551		====		Ci	rcuit	Symbol &	No.	====	Part	Name	Part No.
-	551 552	2 S C 2 4 5 9										
-	551 552 553	UN6212										
-	551 552		10				-					TA81625W
-	551 552 553 554	UN6212 2581144		251								TA81625N HA12134
-	551 552 553 554	UN6212 2581144 25A1429	1 C	251 301								HA12134
-	551 552 553 554 555 551 552	UN6212 2581144 25A1429 WG713	1 C 1 C 1 C	251 301 401		702						HA12134 RC2068S
-	551 552 553 554 555 551 552 553 554 555 559	UN6212 2SB1144 2SA1429 WG713 ERA15-02VH	1 C 1 C 1 C 1 C	251 301 401 501								HA12134 RC2068S LC7218HS
-	551 552 553 554 555 551 552 553 554 555 559 556	UN6212 2S81144 2SA1429 WG713 ERA15-02VH ERA32-02	1 C 1 C 1 C	251 301 401 501								HA12134 RC2068S
-	551 552 553 554 555 551 552 553 554 555 559	UN6212 2SB1144 2SA1429 WG713 ERA15-02VH	1 C 1 C 1 C 1 C	251 301 401 501 502								HA12134 RC2068S LC7218HS RC78L05A
-	551 552 553 554 555 551 552 553 554 555 559 556 557 558	UN6212 2S81144 2SA1429 WG713 ERA15-02VH ERA22-02 ERC05-10B	1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C	251 301 401 501 502								HA12134 RC2068S LC7218HS RC78L05A
-	551 552 553 554 555 551 552 553 554 555 559 556 557 558	UN6212 2S81144 2SA1429 WG713 ERA15-02VH ERA32-02 ERC05-10B UZ6R88S8	1C 1C 1C 1C 1C 1C	251 301 401 501 502 601 751								HA12134 RC2068S LC7218HS RC78L05A M5237L PD4331A
-	551 552 553 554 555 551 552 553 554 555 559 556 557 558	UN6212 2S81144 2SA1429 WG713 ERA15-02VH ERA22-02 ERC05-10B	1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C	251 301 401 501 502 601 751 752								HA12134 RC2068S LC7218HS RC78L05A

KEH-6261ZH/KEH-7261ZH

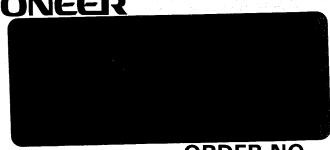
2222	====	= C	irc	uit	Symb	o I 8	ι No.	=	===	Part Name	Part No.	===		C : r	r cuit	Symb	0 &	No. :					Part No.
1 C	801 851	-									P A 3 O 2 2 M 5 2 8 O L	R R	309										RS1/10S102J RD1/4PS223JL RS1/10S393J
0	401	402	4	03	404	405	40	6	407	408	2SC 4038LN	R		352 354									RD1/4PS332JL
-	501										2 S K 3 3 0 2 S C 2 4 5 8	R R	353 401	3 3 4 4 0 2	407	408	413	414	419	420			RS1/10S683J
Q	502														400	440							R\$1/10\$122J
											2 S A 1 D 4 8	R		404		410 412	417	419	123	121			RS1/10S332J
0	503	750	7	56	760						UN 4 1 1 2	R	405 415	406	411	411	411	410	423	474			R\$1/10\$222J
Q	504 505	753 506		J 0	700						DTB113ZS	R R	421										RS1/10S182J
0 0	507	300									2 S C 4 O 3 8	R	425										RS1/10S472J
ā	508										UN 6 1 1 2												001/40027011
											UN 6 2 1 2	R R	501 502	506									RD1/4PS272Ji RD1/4PS152JL
Q Q	509 601										2 S A 1 3 5 8	R	503	504									RD1/4PS102JL
Q.	602	60	3 (0 6							2 S D 1 6 8 4	R	505										RD1/4PS101JL
Q	604										2 S D 1 8 6 4	R	507										RD1/4PS153JL
Q	605	75	5								2502459												RD1/4PS103JL
۸	607										UN 4 2 1 2	R R	508 509										RS1/10S103J
Q Q	609										UN4122	R	510										RS1/10S273J
Q	610	75	4								25A1429	R	501										RD1/4PS221JL
Q	701		2								DTC343TL	R	603										RD1/4PS153JL
Q	751	75	2	757	801	8 (2				2 S C 2 4 5 8												RD1/4PS221JL
											UN4112	R	604			610	611						RD1/4PS561JL
0	758	7.6	1								UN 4 2 1 2	R R	608	606 614	753	610 770		773	7 8 0				RD1/4PS223JL
Q D	251		'								WG 7 1 3	R	609	612		764					5 7	86	RD1/4PS222JL
D	501										HZS3R0EB2	R		616	• . •								RD1/4PS102JL
D	502										RD5R6JSB2												
											WG713	R		702									RS1/10S393J RS1/10S333J
D	503			505							RD15JSB2	R		704									R\$1/105223J
D	601	160									RD5R6JSB2	R R	706	765 755									RS1/10S153J
D	603										RD3R0ESB2	R		708									R\$1/10\$333J
D	80	5 71	3	164	76	5 7	66	801			WG713												
		_									RD8R2JSB2	R		710									RD1/4PS224JL
D	60										RD7R5JSB1	R		712									RS1/108102J RS1/108104J
D D	60 61		5 5								RD5R1JSB2	R R		714 716									RS1/10S223J
D	61	1									HZS4CLL	R		718									RS1/10S183J
D	70	1 7	0 2	703	70	4 7	05	706			WG713	,,		110									
		. ,	. .	754							RD7R5JSB2	R	719	720	725	726	727	728					RS1/10S472J
D D	75 75					8 7	5.9	760	76	1 762	WG 7 1 3	R	721			724							RS1/108473J
l	50		51	,		•				nductor	CTF-156	R		730									RD1/4PS472JL
i	50		٠.					Fer	r i -1	nductor	CTF-157	R	731		701	. 700	701						RD1/4PS332JL RS1/10S222J
Ţ		1						Coi	I		CTB1039	R	750	138	101	780	131						110171111111
		•						Coi	l		CTB1035	R		775)							RD1/4PS104JL
Ţ	R 75	2	5.3						•		CWW1048	R		774									RD1/4PS473JL RD1/4PS103JL
X			••					Cry	stal	Resonator	CSS1030		754				103	5					RS1/10S473J
X	7 5	51						Cer	amic	: Resonator	CSS1065	R R		757 767		1 8 769	1						RS1/8S222J
٧	R 30	1 3	0 2					Sem	i - f i	xed 33kΩ (B)	VRTB6VS333	"		, , ,									
v	R 3	5.1						Voi	ume/	/Switch 20kΩ (B) CCS1189	R											RD1/4P\$823JL RD1/4P\$473JL
	r s R									rotector	DSP-201M	R											RS1/108223J
	IN.	•										R											RD1/4PS222JL
												R R											RS1/10S101J
i	IESIS	TORS											,										
											0	R							, ,.	. 7.			RD1/4PS362JL
		====	С	ircu	it S	ymbo	1 &	Νo.	==:	== Part Name	Part No.	R		_		4 79	b 79	ь 79	1 79	8 79	3 3		R\$1/10\$473J R\$1/10\$472J
							-			 -	RS1/10S473J	R R		1 80:	J								RS1/10S392J
		51			7 3	0 8					R\$1/10\$222J	R											RS1/10S684J
		55									RS1/10S334J												001/104744
	R 2	57	258	3 0	3						RS1/10S183J	R											RD1/4PS562JL RD1/4PS473JL
	R 2	59	260								R\$1/10\$133J	R R			2 95	3 95	4 95	5 96	2 96	5 9	70		RS1/8S0R0J
	,	261	252								RS1/10S181J	R				8 95						986	R\$1/10S0R0J
		264									RD1/4PS104JL	R				9 97							RS1/10S0R0J
		301	302								RS1/10S822J												
		304									R\$1/10\$223J												
		305	306								RD1/4PS473JL												

EH-6261ZH/KEH-7261ZH

1 2 2 251 253 255 257 259 260 301 303 401 403 405 406 407 409 411 413 501 503 505 506 507 60 509 60 511	252 254 256 258 305 302 304 402 404 412 414 6 416 6 502 8 504	307	308	No. ==== Part		art No.	Unit Unit MISC ==== LC Q D	Bass Num Nam CELLAN 901 451	Boar /Tre iber ie IEOUS Ci 452 902	d P.C. ble P.: : Key	Boar Symb	ard d Un ol &	No. Chip 906	Tran 907	Part Name sistor Chip Transisto	UPD6700GH DTC343TK
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									2	Motor						



(!) PIONEER



ORDER NO.

CASSETTE MECHANISM ASSEMBLY

CX-156/A, CX-156/B

- This service manual is for cassette mechanism assembly used in car stereo components.
- Refer to the service manual for individual models for details on sections other than the cassette mechanism assembly.

Model	Service Manual	Cassette Mechanism Assembly
FX-K5/EW		CX-156/A
FX-K5B/EW	CRT-469	CX-156/A
FX-K5SDK/WG		CX-156/A
FEX-55/US, CA, CS	CRT-471	CX-156/A
FEX-50/ES	CRT-470	CX-156/A
KX-E60/EW	CRT-476	CX-156/B
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Model	Service Manual	Cassette Mechanism Assembly

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2. MECHANISM DESCRIPTION		SCHEMATIC CIRCUIT DIAGRAM	

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PIONEER ELECTRONICS AUSTRALIA PTY. LTD. 178-184 Boundary Road, Braeside, Victoria 3195, Australia

TEL: [03] 580-9911

1. REPLACEMENT OF PARTS IN CASSETTE MECHANISM

• Belt and capstan motor (M3) replacement

- 1. Remove the four screws and the cover. (Fig. 1)
- 2. The belt in Fig. 2 can be replaced. (Be sure that the belt is not greased and not twisted.)
- 3. To replace the capstan motor, remove the two screws shown in Fig. 2.

• Cassette holder removal

Cassette Holder E

 Turn the capstan motor until the cassette holder drops down. (Do not turn the flywheel directly by hand.)

> Cassette Holder D

> > Spring

Fig. 3

- 2. Remove the screw labeled "B", the collar and the spring.
- 3. Remove unit "A" and the cassette holder "D" and "E".

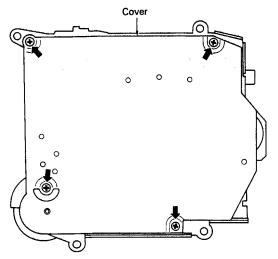
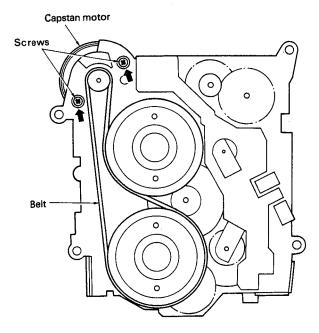


Fig. 1



Collar

Fig. 2

• Head unit replacement

- 1. Remove the washer and spring.
- Remove the screw labeled "F", and the head unit can be removed in the opposite direction.
- 3. Be careful of the following point during reassembly.
 - Put the head unit pins through the lever holes. (One in front and one in back.)

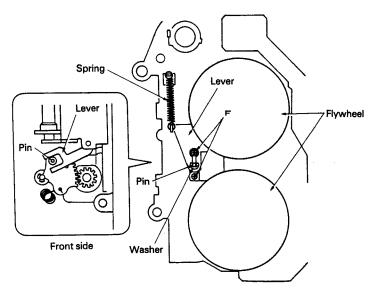


Fig. 4

• Sub-motor replacement (M1 and M2)

- Remove the two screws labeled "G" and remove the P.C. board unit.
- 2. The sub-motor can be removed by removing the three screws indicated by the arrows.
- Sub-motor 2 (for switching the FF/REW gear) can be replaced when the spacer has been removed. (The motor fits very snugly, so some force must be used to remove it.)
- Sub-motor 1 (for turning and positioning the head) can be replaced by removing the belt, lock washer, pulley and two screws labeled "J".

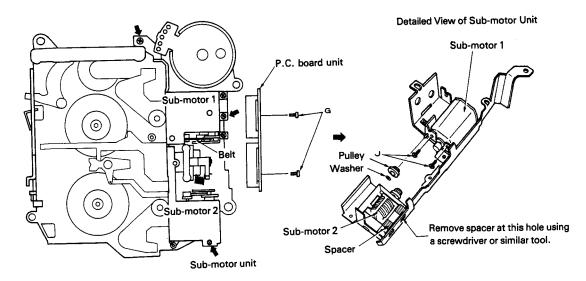


Fig. 5

CX-156/A, CX-156/B

• Reel unit replacement

- 1. Remove the six screws and the switch P.C. board.
- 2. Remove the screw labeled "K" and the collar and free the FF/REW idler gear.
- 3. The reel assy can be replaced by removing the two screws labeled "L" and removing the reel unit.

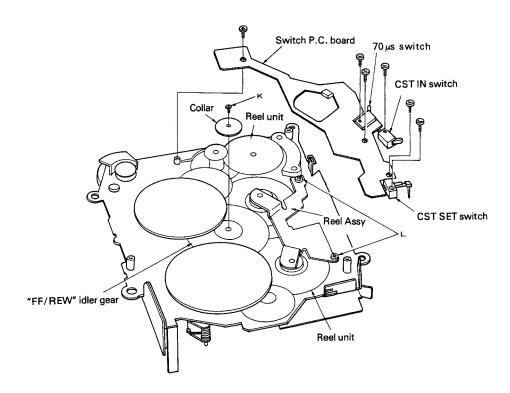
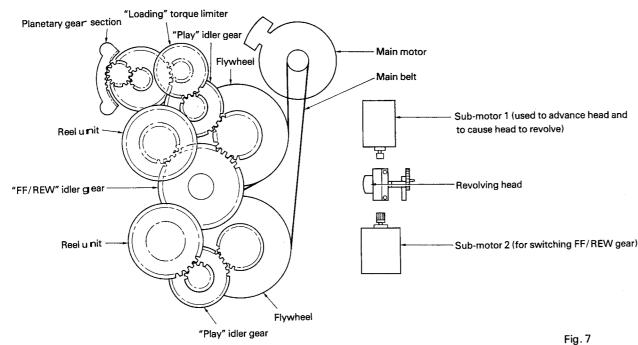


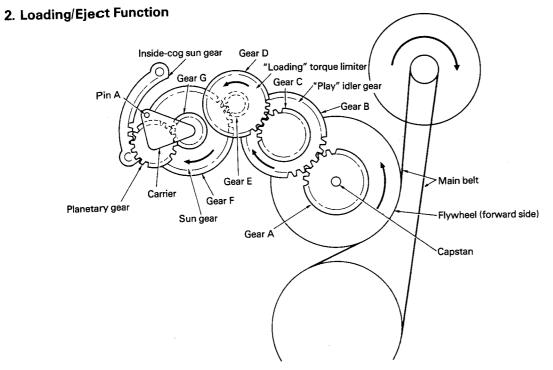
Fig. 6

2. MECHANISM DESCRIPTION

Cassette mechanism assy for CX-156/A is used in this mechanism description.

1. Outline of Mechanism

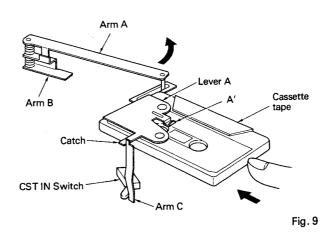




3. Cassette Tape Load and Eject Mechanism

• Cassette tape loading operation

- 1. Push the cassette tape lightly in the direction indicated by the arrow. (As shown in Fig. 10, arm "A" and arm "B" connect to spring "A". These are also connected to common axis shaft "A", which is attached to the chassis surface and acts as a swivel. Pin "A", which is caulked to the planetary gear unit carrier, goes through the chassis and fits into the oblong hole of arm "B". Because pin "A" won't move as long as the capstan motor isn't moving, arm "B" won't move either.)
- 2. When a cassette tape is loaded, arm "A" moves in the direction indicated by the arrow and spring "A" loosens. Lever "A" also moves in the direction indicated by the arrow, and the catch at left of the lever releases arm "C". Arm "C" then turns counterclockwise and opens the CST IN switch. The capstan motor then begins turning forward.
- 3. The carrier then moves clockwise because the planetary gear moves along the inside-cog sun gear. Pin "A" which is caulked to the carrier also moves in the same direction. (Fig. 11) The movement of pin "A" is causing arm "B" to move counterclockwise. Arm "A" turns in the same fashion and the "A" unit of lever "A" draws the cassette tape in. (Fig. 9)



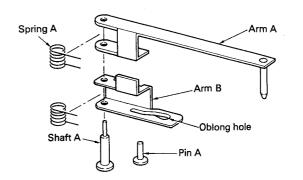


Fig. 10

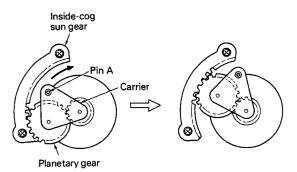


Fig. 11

4. The oblong hole of arm "B" is as shown in Fig. 12. The cassette tape draw-in process will be complete when the pin "A" degree of rotation is θ . Arm "B" will not move while the degree of rotation is θ' .

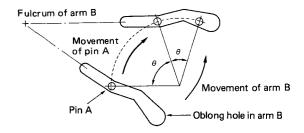


Fig. 12

5. As shown in Fig. 13, arm "C" (caulked to the chassis swivel) is fixed to pin "A" and when the degree of rotation is θ arm "C" is stationary, and when it is θ ' arm "C" turns clockwise.

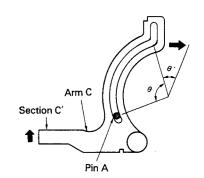
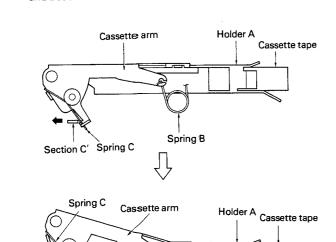


Fig. 13

Fig. 8

CX-156/A, CX-156/B

- 6. As shown in Fig. 14, the "C" unit of arm "C" connects to the cassette arm (which suspends the cassette tape) through spring "C". The arm "C" movement described above in paragraph five makes the "C" unit move in the direction indicated by the arrow in Fig. 14. The cassette arm pushes down holder "A" by means of spring "B". The "C" unit is released when holder "A" drops down.
- In order for the capstan motor to keep turning forward, the planetary gear disengages from the inside-cog sun gear and becomes free.



Spring B

Chassis stopper section

6

Fig. 14

Eject operation

 Turning on the eject switch reverses the capstan motor. As shown in Fig. 15, spring "D" places slight friction on the planetary gear which causes it to engage with the insidecog sun gear. The cassette tape is ejected following an operation opposite to the loading operation.

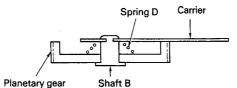
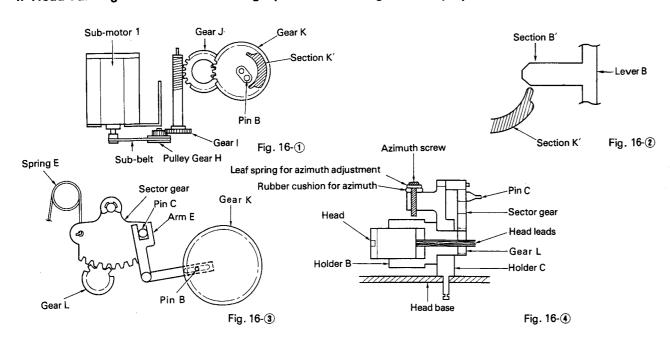
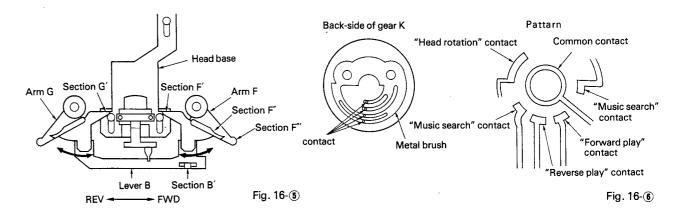


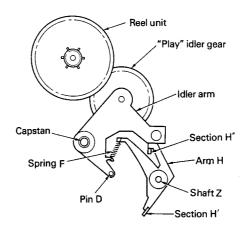
Fig. 15

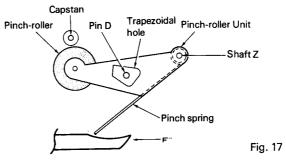
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4. Head Turning and Head Positioning Operations (during forward play)





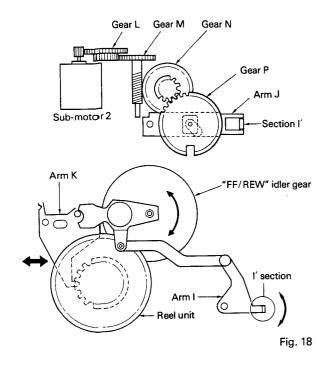




- 1. The sub-belt from sub-motor 1 goes through pulley gear "H", gear "I", gear "J" and turns gear "K". Head turning and head base positioning take place using the "K" unit (the projecting unit) of gear "K" and pin "B". There is a metal brush attached to the back of gear "K" which detects the passing through of all patterns and common patterns and stops sub-motor 1. This controls the head positioning, the head turning, the contact pressure of the play idler gear and the contact pressure of the pinch roller.
- 2. Head turning at pin "B" takes place until gear "K" starts turning which brings the "K" part into contact with the lever "B", "B" part. (Fig. 16-③)
- 3. Pin "B" engages with the arm "E" oval opening and rotates arm "E". The arm "E" sector gear is engaged with pin "C" and this turns the head. The head rotation pattern (Fig. 16-(§)) performs this operation inside a certain angle.
- 4. When gear "K" turns it also pushes the lever "B", "B" part. The "B" part turns arm "F" and arm "G" counter-clockwise and advances head base with the arm "G", "G" part. (Fig. 16-②, ⑤)
- After the head base goes beyond the MS pattern (Fig. 16-(§)) position, the arm "F", "F" part pushes the pinch roller unit pinch spring and presses the pinch roller down onto the capstan. (Fig. 17)
- 6. Simultaneously, the arm "F", "F" unit pushes the arm "H", "H" part. The "H"" part lock releases when pushed, and the play idler gear comes into contact with the reel unit. Play operation begins because of this. (Fig. 16-\$), Fig. 17)
- 7. When going from play to eject, first, the pinch roller disengages from the capstan, and then using the pinch roller unit trapezoidal hole, releases the idler arm from the reel unit by means of pin "D". After that, the "H"" unit again meshes with the idler arm and the "play" idler gear stops after completely disengaging from the reel unit.

5. FF/REW Operation

- As with the head operations a brush is attached to the back of gear "P" and using patterns and the brush, position sensing takes place and this controls the FF/REW operation.
- 2. Sub-motor 2 goes through gears "L", "M" and "N" and turns gear "P". When gear "P" turns, arm "I" rotates by means of arm "J". Arm "I" rotates the FF/REW idler gear and engages it with the reel unit.



3. ADJUSTMENT

3.1 AZIMUTH ADJUSTMENT

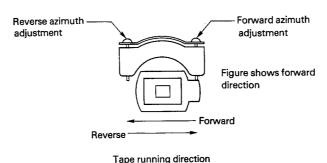
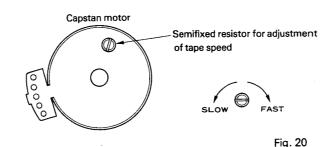


Fig. 19

• To Adjust

- 1. Play "A" side of STD-341A (10kHz, -20dB). Adjust each screw for maximum output in forward and reverse directions.
- 2. Play "B" side in forward and reverse directions to confirm adjustment.

3.2 TAPE SPEED ADJUSTMENT



• To Adjust

1. Reproduce STD-301 (3kHz, -10dB). Adjust the semifixed resistor so that the frequency counter shows 3,010Hz (+30Hz, -30Hz).

3.3 CHECK POINTS OF CASSETTE MECHANISM

Using a cassette type torque meter (120

g·cm), measure the value when the

tape stops in the REW mode.

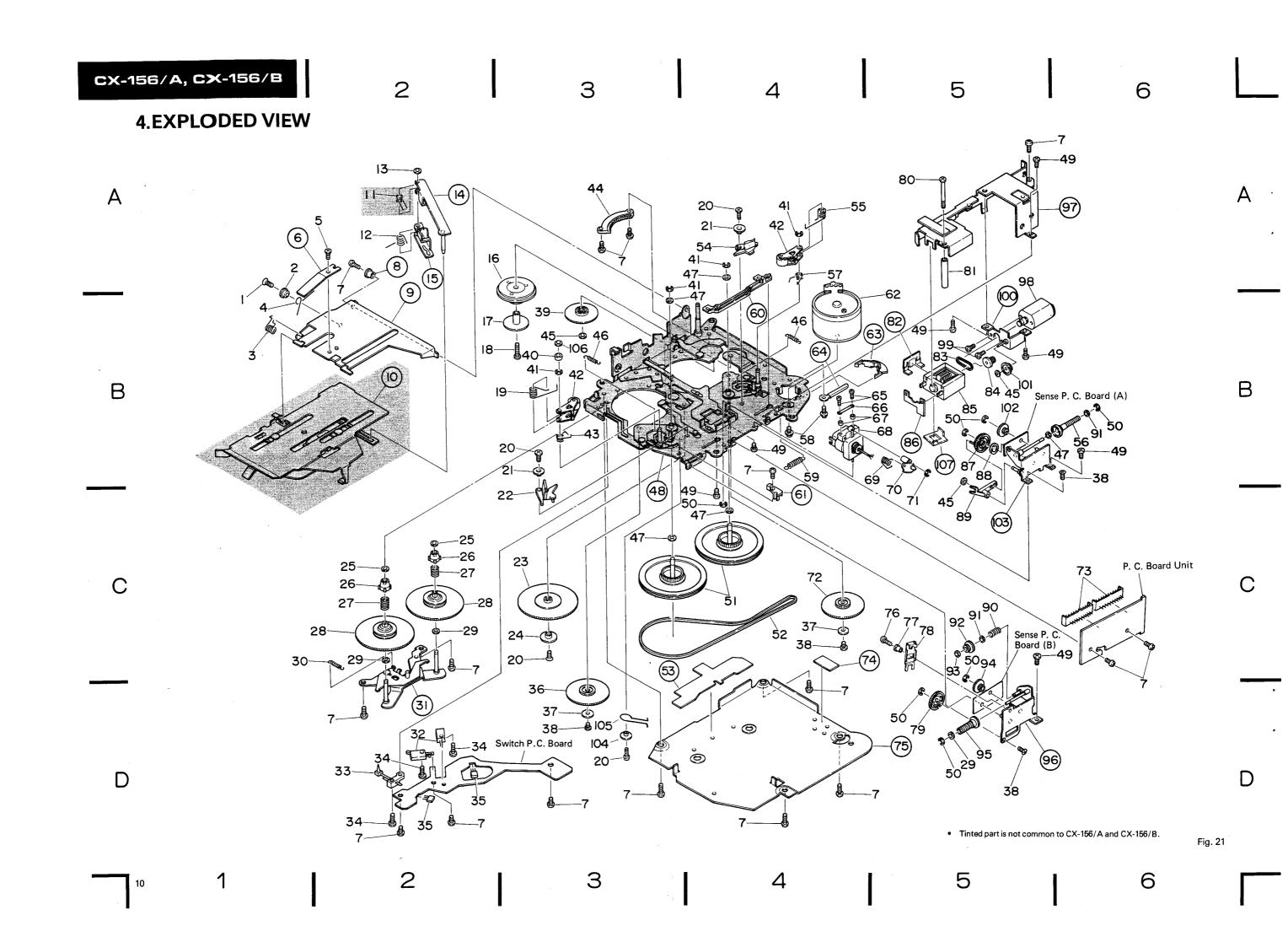
■ Wow and flutter: ■ Tape speed deviation: Less than 0.15% (WMS) 3,000 + 90 Hz Using an STD-301, measure the wow $(4.76 \text{ cm/s} + \frac{3}{1}\%)$ and flutter at the start and end of wind-Using an STD-301, measure the speed ing and take the maximum value. If Confirm the following items when reat the start and end of winding and see values indicated by the pointer vary placing parts of the cassette mechathat a deviation remains within the limits considerably, adjust to 70% of the mininism each time. If values indicated by the mum and maximum values. Measuring pointer vary considerably, adjust to time shall be $5 \sim 6$ seconds. 70% of the minimum and maximum values. Measuring time shall be $5\sim6$ seconds. Fast forward and rewinding time: ■ Winding torque: F.F. torque: 40 ~ 60 g ⋅ cm 70 ~ 110g • cm 95 ~ 115 seconds Using a C-60, set to fast forward and rewind, and measure the time with a stop Using a cassette type torque meter (100 Using a cassette type torque meter (120 g·cm), measure the value when the g·cm), measure the minimum value tape stops in the F.F. mode. while in the play mode. Measuring time shall be $5 \sim 6$ seconds. ■ REW torque: ■ Back tension torque: ■ Cassette loading force: 2.0 ~ 3.5g • cm $450 \sim 550 \text{ g}$ 70 ~ 110g • cm Push the center of the cassette and measure the force with a tension meter (1 kg).

After setting in the REW mode without

loading a cassette tape for 5 minutes,

measure the back tension torque in the

play mode, using a cassette type torque



NOTE:

- For your Parts Stock Control, the fast moving items are indicated with the marks ★ ★ and ★.
 - \star \star : GENERALLY MOVES FASTER THAN \star .

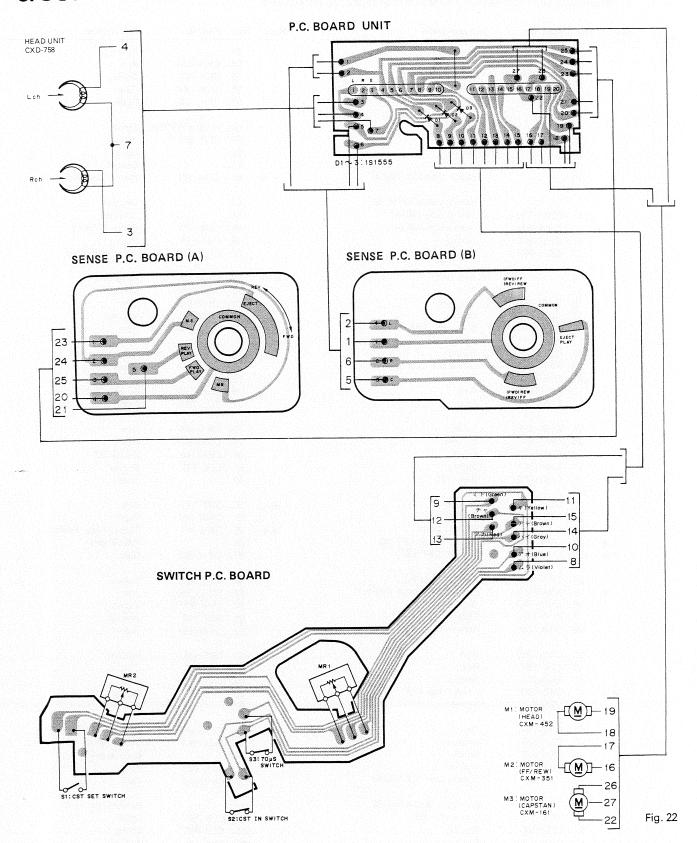
This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.

Parts whose parts numbers are omitted are subject to being not supplied.

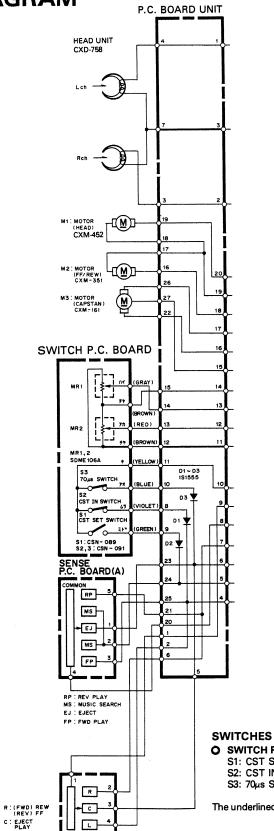
Mark	No.	Part No.	Description	Mark	No.	Part No.	Description
		HBA - 193	Screw M1.4×3.5		53.		Insulator
			Collar		54.	CNW-931	Arm
	2.	CLB - 691 CBH - 837	Spring		55.	CBH-831	Spring
			Spring		56.	CNW-956	Gear
	4. 5.	CBH -867 HBA -147	Screw M1.4×1.4		57.		Spring
	_		Continu		58.	PMS26P030FMC	Screw
	6.		Spring		59.	CBH-830	Spring
	7.		Screw		60.	CBH-000	Lever
	8.		Bush		61.		Spacer
	9.		Arm			CVM 161	Motor (Capstan)
	10.		Holder Unit (CX-156/A)	* *	62.	CXM - 161	Motor (Capstan)
			Holder Unit (CX-156/B)		63.		Clamper
	11.	CBH-836	Spring (CX-156/A)		64.		Clamper
		CBH - 887	Spring (CX-156/B)			CBA - 173	Screw M1.4×8
	12.	. CBH-886	Spring			CBE-114	Spring
	13	. CBF-046	Washer		67	CNY-134	Azimuth Rubber
	14		Arm Unit	* *		CXD - 758	Head Unit
	15		Arm			CBH-829	Spring
	16	. CXD-388	Gear Unit			. CNW-939	Gear
	17	. CLB-617	Collar		71	YE15FUC	Washer
	18	. CBA-166	Screw M1.7×8		72	. CNW-943	Gear
	19	. CBH-832	Spring		73	. CKS-534	Plug
		. HBA-310	Screw M2×3.5		74	•	Insulator
		. CLB-612	Collar		75		Cover
	22		Arm		76	. HBA-158	Screw M1.4×5
		B. CNW-944	Gear		77	. CLB-750	Collar
	24	I. CLB-616	Collar		78	. CNH-004	Arm
	-	5. CBF-135	Washer		79	. CNW-953	Gear
		6. CNW-932	Collar			. CBA-165	Screw M2
		7. CBH-827	Spring			. CLB-749	Spacer
*		3. CXD-384	Reel Unit		82		Spacer
	26	9. CBF-088	Washer	*:	∗ 83	3. CNT-114	Belt
		0. CBH-868	Spring		84	. CNW-941	Gear
		1.	Bracket Unit	*		5. CXM-351	Motor (Gear Position)
	_	2. CSN-091	Switch (70µs, CST IN)	^	86		P.C. Board
* *		3. CSN-089	Switch (CST SET)			7. CNW-952	Gear
	2	4. CBA-172	Screw M1.7×5.5		88	3. CNN-481	Spacer
		5. SDME106A	Magnetic Resistive Device		89		Arm
		6. CNW-943	Gear). CBH-866	Spring
		7. CLB-615	Collar			1. HBF-116	Washer
		8. HBA-209	Screw M2×2			2. CNW-954	Gear
	2	9. CNW-950	Gear		Q:	3. CBF-135	Washer
	-	0. CLB-690	Roller			4. CNY-077	Gear
		1. EBG-001	Washer			5. CNY-148	Gear
		2. CXD-387	Pinch Roller Unit			6.	Holder Unit
*		3. CBH-834	Spring			7.	Guide
	,	14. CNW-951	Gear		★ 9	8. CXM-452	Motor (Head Position)
		15. CBF-126	Washer	*		9. HBA-244	Screw M1.4×1.6
		16. CBH-835	Spring		10		Bracket Unit
		ю. СВН-635 17. HBF-179	Washer			0. 1. CNY-075	Pulley
		17. HBF-179 18.	Chassis Unit (CX-156/A)			2. CNW-955	Gear
			Chassis Unit (CX-156/B)		10	3	Holder Unit
		40. LIDA 17E	Screw M2×2.5			3. 4. CLB-760	Collar
		49. HBA-175	Washer			5. CBH-893	Spring
		50. YE12FUC				6. HBF-180	Washer
		51. CNW-942	Flywheel				Cover
*	t * !	52. CNT-111	Belt		10	7.	30401

CX-156/A, CX-156/B

5. CONNECTION DIAGRAM



6.SCHEMATIC CIRCUIT DIAGRAM



L: (FWD) FF (REV) REW

SENSE P.C. BOARD(B)

7. ELECTRICAL PARTS LIST

Switch P.C. Board

Mark	Symbol & I	Part No.	
**	S1	Switch (CST SET)	CSN-089
**	S2, S3	Switch (CST IN, 70 µs)	CSN-091
*	MR1, MR2	Magnetic Resistive Device	SDME106A

P.C. Board Unit

Mark	Symbol & Description	Part No.
*	D1 — D3	1S1555

Miscellaneous Parts List

Mark	Symbol & I	Description	Part No.	
**	Head Unit		CXD-758	
**	M1	Motor (Head)	CXM-452	
**	M2	Motor (Gear)	CXM-351	
**	M3	Motor (Capstan)	CXM-161	

SWITCH P.C. BOARD

 S1: CST SET SWITCH.
 ON — OFF

 S2: CST IN SWITCH.
 ON — OFF

 S3: 70µs SWITCH.
 ON (120µs) — OFF (70µs)

The underlined indicates the switch position.